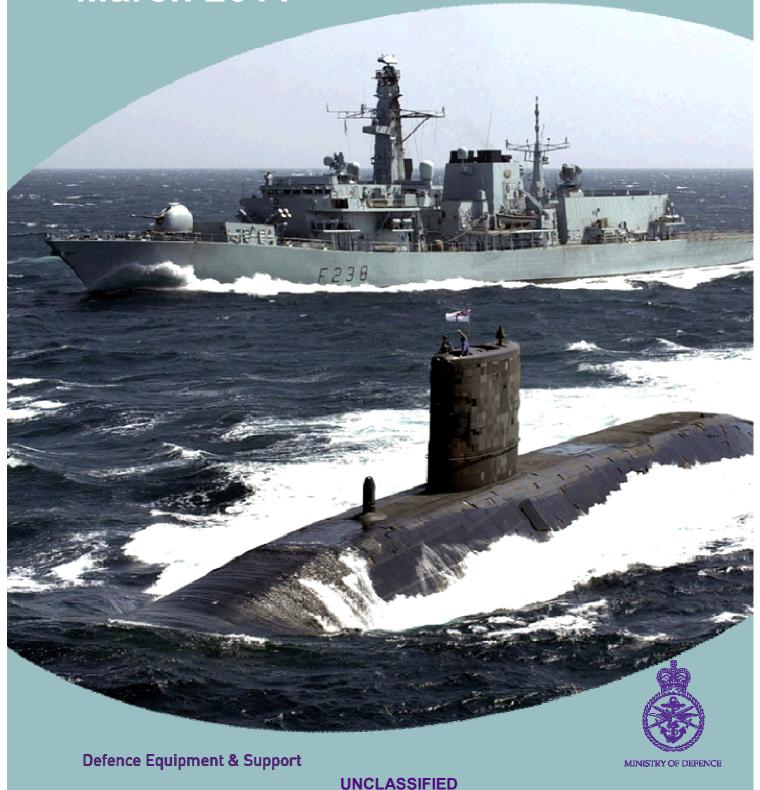


WARPAINT ISSUE 32

March 2011

**Safety Engineering** 



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Issue 32 March 2011

The information on acceptable paint systems/coatings, given in this publication, updates BR3939 Issue 1 September 2006.

#### 1. INTRODUCTION

- 1.1 Warpaint is the DES SE Sea-MT main guidance document of acceptable paint coatings for in-service and new-build Royal Naval Vessels. However, not all approved coatings are listed in Warpaint as paint manufacturers' are constantly striving to improve their current paint systems. Consequently their Whole Ship Specifications/Annexes are regularly updated. Should a coating therefore be proposed which is not listed in Warpaint, confirmation of acceptance must be obtained from DES SE Sea-MT5.
- 1.2 Note that all paint coatings listed in the annexes are to be applied strictly in accordance with their respective paint manufacturers' technical, health & safety data sheets and instructions.
- 1.3 The differing paint manufacturers 'Whole Ship Specification' annexes are listed in alphabetical order (Leighs previously known as WJ Leighs) and it is important to first determine your current paint supplier before ordering *any* specific coating. For example; there have been numerous instances where coatings supplied by Chugoku Paints (UK) Ltd have been ordered, simply because they are listed first (alphabetically) in the annexes.
- 1.4 Due to the high demand for Warpaint only limited numbers of hard copies are available. The easiest way to obtain a copy is via the internet/intranet and the Sea Systems Group website. From here it can be easily downloaded. Information on accessing these websites is detailed at 1.7 and 1.8.
- 1.5 The main aim of Warpaint is to continue to offer guidance on the various approved commercial off the shelf (COTS) paint manufacturers' coatings that have been assessed for their health and safety, fire and toxicity and suitability when applied to various areas of Royal Naval Vessels.
- 1.6 The DES SE Sea-MT contract with Coating Consultants Limited (CCL), for the operation of a telephone Paint Helpline continues to be successfully and widely used. Details of this can be found on page 12 Item 9.2
- 1.7 This issue should be a useful addition to the data required by projects for ship/submarine build or maintenance. For future editions of Warpaint readers are invited to comment on what they regard as errors, omissions or where they feel that more, or possibly less information is required. Please note that such comments should be emailed for *consideration* to: <a href="mailto:DESSESea-MT5@mod.uk">DESSESea-MT5@mod.uk</a> with the subject heading "WARPAINT".

1.7 Warpaint is available via the DE&S *internet* website at:

http://www.mod.uk/DefenceInternet/MicroSite/DES/OurPublications/Warpaint.htm

1.7.1 It is also available via the DE&S *intranet* at:

http://defenceintranet.diiweb.r.mil.uk/DefenceIntranet/Library/CivilianAndJointService/Brows eDocumentCategories/ResearchScienceAndTechnology/MaterialsScienceAndTechnology/ CoatingsColourantsAndFinishes/Warpaint.htm

- 1.7.2 Extracts from Warpaint, relative to areas of ship husbandry, can also now be found on the 'Ship / Submarine Husbandry & Habitability Information Portal' via the internet at: <a href="www.shipshapern.com">www.shipshapern.com</a> along with a full copy and the current issue (1) of BR3939. To gain access to this database you will require a user name and log in available by emailing your request and details to: <a href="mailto:DESSESea-ShipDes2a@mod.uk">DESSESea-ShipDes2a@mod.uk</a>
- 1.7.3 Requests for Warpaint should be emailed to the DES SE Sea-MT5 e-address at 1.6 above and not to CCL.

#### 2. AMMENDMENTS TO ISSUE 31

- 2.1 Page 2 Header should read Issue 31
- 2.2 Annex B Hempel UKLtd.

Hempadur 4588 VOC to read 198g/litre for NSN 99-803-7233.throughout.

Hempadur Quattro 17634 to be deleted for items K to O all references to VOC value for this material to be grey-banded (see this Issue)

#### 3. VOC COMPLIANT COATING SYSTEMS

- 3.1 EU Legislation has changed the way VOC emissions are recorded. Notwithstanding this, there remains a MOD requirement for low VOC materials. Based on the guidance table below, Paint Manufacturers and Suppliers are reminded that any formulation changes to their existing products must be advised to DES SE Sea-MT5. They will then be required, on request, to furnish the Institute of Naval Medicine (INM), with full formulation data. Failure to do so will automatically result in the withdrawal of MOD (N) acceptance
- 3.2 MOD (N) requires that Paint Manufacturers and Suppliers quote VOC levels in accordance with CEN or ISO Standards
- 3.3 The DES SE Sea-MT5 maximum VOC target levels are shown in the table below and both paint manufacturers and applicators are encouraged to propose/apply coatings which at least meet or are lower than these target levels.

Category No	Category	VOC limit gms/litre, Paint less Water
(i)	Blast/Weldable primer*	600
(ii)	Tie-coats/sealers	550
(iii)	General primer/undercoat	200
(iv)	External Finishes	420
(v)	Internal Finishes	200
(vii)	AFFF Tanks	390
(viii)	Demineralised Water Tanks	390
(ix)	AVCAT, Dieso & Hydraulic Oil Tanks	390
(x)	All other tank coating systems, plus cofferdams, engine room bilges and chain lockers  Marine Varnish	300
(xi)	warme varnish	530

- \* Blast primers are materials that are applied to a specified thickness of 40 microns. Weldable primers are shop-primers applied by automatic spray and the maximum specified thickness for these materials is 25 microns.
- Wew-generation anti-fouling systems may have higher VOC values than currently existing. There must be a balance between VOC level and toxic content and it may prove necessary to accept a higher VOC material as the lower toxic content outweighs the release of VOC.
- For the benefit of New-Building Specifications ONLY, if a paint system can offer cost benefits, but one part of it has a VOC level higher than the DES SE Sea-MT5 target value, the actual VOC value must be equal to or less than the stated value in PG6/23. This part of the scheme could be proposed on the assumption that it will be subsequently submitted to DES SE Sea-MT5 for approval and inclusion in Warpaint. In this instance DES SE Sea-MT5 will require data supporting the case, including a statement that the total VOCs' to be given off to the atmosphere during application, will be equal to or less than when applying a paint scheme fully in accordance with the DES SE Sea-MT5 target values.

#### 4. SUBMARINE SPECIFICATIONS

- 4.1 All extant *technical* information previously found within Defence Standard 07-252 (NES 774) Requirements for the Preparation and Painting of Submarines, has now been incorporated into BR3939 Hull Preservation Processes (Issue 1 September 2006). The previous and now updated references to approved paint coatings can be found in Annexe J of Warpaint.
- 4.2 Acceptable paint specifications are outlined in Annexe J, together with a list of other acceptable materials.

- In previous issues reference has been made to BR1326(A) Classification, now referred to as the 'Submarine Material Toxicity Database'. DES SE Sea-SM-Atm1 is the sponsor of the hazard assessment process in line with the requirements set for submarine atmosphere control This process is documented in BR1326 chapter 6. DES SE Sea-SM-Atm1 has the responsibility for assessing materials for internal submarine use. All enquiries regarding materials for use on board should therefore in the first instance be directed to <a href="mailto:DESSESea-SM-Atm1@mod.uk">DESSESea-SM-Atm1@mod.uk</a> at MOD Abbey Wood South, Bristol. Telephone: 030679 35045.
- 4.4 Once a material toxicity hazard assessment has been conducted, clearance for use must be sought from <a href="mailto:DESSMIS-A-WS2a1@mod.uk">DESSMIS-A-WS2a1@mod.uk</a> Telephone: 030679 39170 prior to product embarkation.

#### 5. WHOLE SHIP SPECIFICATIONS

- 5.1 The Whole Ship Specifications submitted by seven major paint manufacturers/suppliers, are detailed in their respective annexes to this document. New build paint specifications are no longer separately included as they so closely mirror refit, maintenance and repair.
- 5.1.1 The various paint manufacturers' annexes were originally inserted into Warpaint in alphabetical order, with Chugoku Paints (UK) Ltd being listed first. It is important when searching for any particular coating, or paint system, to ensure that the correct paint manufacturer is sourced and not to just turn to the first annexe (Chugoku) for convenience.
- 5.1.2 The paint specifications in the annexes are the recommendations of the respective paint manufacturers. They are based on performance requirements, VOC and health and safety criteria of MOD(N). They are not specifications prescribed by MOD(N) and their fitness for purpose remains the responsibility of the paint manufacturer.
- 5.2 Items in the tables highlighted with a grey band do not fully meet MOD(N) criteria and are not to be used without prior confirmation from DES SE Sea-MT5. A number of these items may have obtained approval prior to the next issue of Warpaint and readers should always check their current approval status.
- In previous Whole Ship Annexes listed under item J, the NSNs 99-225-0889 & 99-772-5449 shown, relate to Defence Standards' 80-165 (weatherwork grey undercoat) and 80-187 (weatherwork grey finish). To ensure that vessels allocated under the Whole Ship Specification concept receive paints from the selected supplier, their specific materials have been re-codified.

#### 5.4 <u>Tables</u>

- 5.4.2 These are in a new format and now include nominal dry film thickness (ndft) per coat in microns, as well as both the minimum and maximum recoat intervals. The figures quoted are meant for guidance only.
- 5.4.2 VOC grams per litre in the table highlighted thus in a box; no longer comply with DES SE Sea-MT5 VOC emission target levels.

- 5.4.2 Items with a '?' appearing in the boxes, indicate that manufacturer/supplier information is awaited.
- 5.4.2 Annexes are listed in alphabetical order (Leighs previously WJ Leighs) as follows:

Chugoku Paints (UK) Ltd	Annexe A
Hempel Paints Ltd	Annexe B
International Paint Ltd	Annexe C
Jotun Paints (Europe) Ltd	Annexe D
Makers Coating Systems Ltd	Annexe E
PPG Protective & Marine Coatings	Annexe F
Leighs Paints	Annexe G

#### 5.5 <u>LCUs and LCVPs</u>

5.5.2 In general LCUs and LCVPs follow the Whole Ship Specifications with the exception of weatherwork coatings where Chemical Agent Resistant Coatings (CARC) and Infra Red Resistant coatings (IRR) are specified

#### 6. SPECIALIST COATINGS & PAINT REMOVERS

6.1 "WHOLE SHIP SPECIFICATIONS" & "SUBMARINES" Annexes do not cover Specialist areas.

The following table lists specialist coatings and their location of use.

SPECIALIST SYSTEMS/MATERIALS	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
ANTIFOULING FOR "ARCHER" CLASS BOATS & YACHTS SUPERSPEED 52	Anti-Fouling	411		N/A
RUDDERS, STABILISERS & 'A' FRAMES				
(i) Reblast LIMPETITE PRC  (ii) Touch-up Repair LIMPETITE A3	Elastomer Elastomer	0 433		N/A N/A
HULL (Underwater-Applied) GENERAL REPAIR				
BIOFIX 561 LT Black	Ероху	0	99-133-9985	N/A
CHEMI-TECH UW	Ероху	0		N/A
EPIGRIP M216	Ероху	0		N/A
JML 2000	Ероху	0		N/A

SPECIALIST SYSTEMS/MATERIALS	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
HULL - LINK COATS FOR FOUL RELEASE SYSTEMS				
Hempel Paints Ltd				
HEMPASIL NEXUS X-Seal 27600	Silicone	400		N/A
International Paints Ltd	2000			
Link Coat for INTERSLEEK 737: INTERSLEEK 7180	Silicone	376		N/A
FLIGHTDECK MARKINGS	1000			
Chugoku Paints (UK) Ltd				
521E0020 Type 1 WHITE	Ероху	374	99-541-9583	N/A
521E0013 Type 1 BLACK	Ероху	374	99-543-0790	N/A
521E2947 Type 1 RED	Ероху	374	99-543-0793	N/A
521E0013 Type 1 GREEN	Ероху	374	99-5430-791	N/A
Hempel Paints Ltd		347	\	
HEMPELS DECK MARKING 453GB WHITE	Ероху	347	99-323-1118	N/A
HEMPELS DECK MARKING 453GB BLACK	Ероху	347	99-351-4222	N/A
HEMPELS DECK MARKING 453GB RED BS381C 537	Ероху	347	99-724-9085	N/A
HEMPELS DECK MARKING 453GB GREEN BS381C 225	Ероху	347	99-986-6762	N/A
International Paints Ltd	J. Ob		41	
INTERSHIELD 852 WHITE	Ероху	219	99-274-4430	N/A
INTERSHIELD 852 BLACK	Ероху	219	99-250-1864	N/A
INTERSHIELD 852 RED	Ероху	219	99-666-9269	N/A
INTERSHIELD 852 GREEN	Ероху	219	99-871-6360	N/A
Leighs Paints				
Leighs Paints  EPIDEK M377 WHITE	Ероху	330	99-777-8690	N/A
EPIDEK M377 BLACK	Ероху	330	99-777-8692	N/A
EPIDEK M377 GREEN	Ероху	330	99-777-8691	N/A

SPECIALIST SYSTEMS/MATERIALS	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
WOODEN FLIGHT DECKS & ASSOCIATED STEELWORK Note adjacent steel decks to follow Flight Decks paint system				
Hempel Paints Ltd	250			
HEMPADUR 4588 MIO 1243 HEMPADUR 457GB Dark Sea Grey BS381C 640	Ероху Ероху	198 198	99-479-5449 99-831-0343	N/A N/A
Gloss for Deck Margins: HEMPEL'S NON SKID 457GA	Ероху	198	99-879-5150	N/A
Leighs Paints				
METAGARD L574 Red Oxide EPIGRIP M339 Extra Dark Sea Grey BS381C 640	Ероху Ероху	594 250	99-895-9894 99-215-4495	N/A N/A
Gloss for Deck Margins: EPIGRIP M262	Ероху	354	99-133-8713	N/A
International Paints				
INTERSHIELD 300 (thinned 10%) INTERSHIELD 300 INTERSHIELD 851	Epoxy Epoxy Epoxy		99-391-0953	N/A N/A N/A
INTERGARD 3112 SYSTEM as specified in DEF STAN 08-205	Str. Co.			
WEATHERWORK SYSTEMS OVER RAC	9		4	
Chugoku Paints Ltd  CAMLAC UNDERCOAT  CAMSIL FINISH	Alkyd WB Silicone Alkyd	380 116	99-327-9058	N/A N/A
Hempel Paints Ltd			-	
HEMUDUR 1850 HEMUCRYL ENAMEL 5810	Water-Based Epoxy Water-Based Acrylic	85 150	99-876-8090 99-149-2439	N/A N/A
International Paint Ltd	A Second			
INTERGARD 5000 INTERFINE 691HS	Epoxy Epoxy Acrylic	179 409	99-000-5256 99-864-5322	N/A N/A
Jotun Paints (Europe) Limited				
JOTAMASTIC 80 JOTAPROOF TOPCOAT	Epoxy Epoxy Acrylic	145 310	99-519-2253	N/A N/A
Leighs Paints				
EPIGRIP C425V2 EPIGRIP C750V2	Epoxy Epoxy Acrylic	200 364	99-126-6377 99-212-2175	N/A N/A
Maker Coating Systems Ltd				
AMERLOCK 400C SIGMADUR 540	Epoxy Epoxy Acrylic	106 411	99-974-7400	N/A N/A

SPECIALIST SYSTEMS/MATERIALS	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
EMERGENCY REPAIR OF FRESH WATER TANKS				
Hempel Paints Ltd	200			
Hempel's TAPECRETE 6818	Cementicious Acrylic	0	99-302-2646	N/A
GALVANISED STEEL & ZINC METAL SPRAY (REPAIR)	02/15			
Maker Coatings				
ZINGA M	Polystyrene	539	13-113-7072	B (LI)
Hempel Paints Ltd				
HEMUDUR ZINC 18560	Water-Based Epoxy	60		
or HEMPEL'S ZINC PRIMER 16490	Zinc Phenoxy	590		
International Paints Ltd				
INTERZINC 22	Zinc Silicate	470	۸.	
or INTERZINC 72	Zinc Epoxy	410	7).	B (CI, CF)
Leighs Paints			(4)	
EPIGRIP J984	Zinc Epoxy	331	<i>y</i> 1	
VARNISHED WOODWORK			7	
Chugoku Paints Ltd			7	
SPAR VARNISH	Varnish	433		
Hempel Paints Ltd				
HEMPEL'S MARINE VARNISH 022GB	Alkyd	430	99-224-5783	B (BLI)
International Paint Ltd	Alkyd	272	00 228 0646	
INTERLAC 678  Jotun Paints (Europe) Limited	Alkyd	373	99-328-9646	
SPONTAN VARNISH	Urethane Alkyd	470	99-161-6220	
PPG Protective & Marine Coatings	, , ,			
SIGMAVAR GLOSS 8103	Phenolic	393		
HEAT RESISTANT COATINGS (below 175 °C)				
PPG Protective & Marine Coatings				
SIGMATHERM 175	Modified Alkyd	561		

SPECIALIST SYSTEMS/MATERIALS	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
HEAT RESISTANT COATINGS (above 250 °C)				
Hempel Paints Ltd	-080			
HEMPEL'S GALVOSIL 15700	Zinc Silicate	435		BLI
International Paint Ltd				
INTERTHERM 890	Zinc Silicate	305		BLI
PPG Protective & Marine Coatings	35728			
SIGMATHERM 500	Modified Alkyd			
HEAT RESISTANT COATINGS (above 400 °C)	23/7			
Hempel Paints Ltd		1		
HEMPEL'S SILICONE ALUMINIUM 56910	Polysiloxane	585		
International Paint Ltd	8	$M/\Lambda_c$		
INTERTHERM 50	Silicone	495	99-257-1455	BLI
PPG Protective & Marine Coatings			1	
SIGMATHERM 500	Modified Alkyd	//	h l	
SYSTEM FOR COATING NATURAL RUBBER MOUNTS			1	
Applied by Mount supplier not to be touched up once fitted			7	
Dunlop Precision Rubber Ltd	V 5/4/4	DO !		
DUNLOP NPL 100	Twin Pack	1	99-541-9576	В
Maker Coating Systems Ltd		-		
GUMMIPAINT - Orange	Single Pack			BLI
PAINT REMOVER				
Cirrus Systems Ltd	7-2-			
REMOVALL 510 (Formally NAPIER-PMA)	Biodegradable	N/A	99-871-5945	
N A Robson Ltd				
BACK TO NATURE VIII	Biodegradable	N/A		
International Paint Ltd				
INTERPLUS 634	Biodegradable	N/A		CI
Maker Coating Systems Ltd				
SEA TO SKY SPC-203	Biodegradable	N/A	20-003-3432	

SPECIALIST SYSTEMS/MATERIALS	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
UNIQUE IMMERSED AREAS, PUMPS ETC				
Corrocoat Limited				
CORROGLASS 202	Polyester Glass Flake			
CORROGLASS 232	Polyester Glass Flake			
CORROGLASS 602	Vinyl Ester Glass Flake			
CORROGLASS 632	Vinyl Ester Glass Flake			
POLYGLASS VE	Vinyl Ester Glass Flake			
POLYGLASS VE HAND APPLIED	Vinyl Ester Glass Flake			
POLYGLASS VEF	Vinyl Ester Glass Flake			
POLYGLASS ZIPCOAT	Polyester Glass Flake			
CORROCOAT ZIP E	Glass Flake Epoxy			

#### 6.2 Cleaning Materials and Rust Removers

DES SE Sea-ShipDes2a is the Ship Husbandry (excluding Paint) & Habitability desk officer. All enquiries regarding cleaning materials and rust removers should be emailed to <a href="mailto:DESSESea-ShipDes2a@mod.uk">DESSESea-ShipDes2a@mod.uk</a> alternatively telephone 030679 39673. (Rust removers should only be used on un-painted surfaces, they are not a part of any approved paint system)

- 6.2.1 Details of all current and future approved products, that are compatible with RN approved paint coatings, can and will be found in BR2203 as well as in the Ship / Submarine Husbandry & Habitability Information Portal. This database can be accessed via the internet. Contact DES SE Sea-ShipDes2a for further details.
- 6.3 Specialist Coatings Suppliers contact details:

Superspeed 52	H Marcel Guest	Tel 0161 205 7361
Limpetite	Bristol Metal Spraying	Tel 0117 9662206
BIOFIX 561LT	Innovative Epoxy Solutions	Tel 01454 612445
Chemi-Tech UW	Thortex Ltd	Tel 01609 780170
JML 2000	Jones Marine Ltd	Tel 02380 448100
Zinga	Maker Coating Systems Ltd	Tel 01392 822600
Gummipaint-Orange	Maker Coating Systems Ltd	Tel 01392 822600
Removall 510	Cirrus Systems Ltd	Tel 01305 822659
Back to Nature VIII	N A Robson Ltd	Tel 01253 393406
Sea to Sky SPC-203	Maker Coating Systems Ltd	Tel 01392 822600
Corroglass & Polyglass	Corrocoat Ltd	Tel 01132 760760

6.4 ROCOL Site Safety Systems have reluctantly decided that as a consequence of the impact of Whole Ship Specifications, they wish to withdraw their Epoxo materials from RN supply. Therefore all reference to Rocol and Epoxo has been removed from the tables above. They advise that they still hold limited stocks and can continue to supply in the short term if required.

#### 7. QUERIES ON PAINTING AND PRESERVATION

7.1 Coating Consultants Limited (CCL), continue to operate the DES SE Sea-MT Paint Helpline under an enabling contract. All matters of a routine nature regarding approved materials, NATO stock numbers, and other general enquiries should be addressed to CCL. All matters concerning MOD(N) Paint Policy should be directed to DES SE Sea-MT5.

#### 7.2 CCL HELPLINE - TELEPHONE NUMBER

CCL may be contacted on weekdays Monday - Friday between 09:00 - 17:00 hours

Office Telephone: 01245 268406Mobile Telephone: 07941 015857

If the connection to the mobile number is not made, the user may be asked to leave a message. Please *remember* to state your name, organisation and a full contact telephone number - CCL will call you back as soon as possible.

If the enquiry is not urgent, outside office hours, or is complex, CCL would appreciate being contacted via email at the following e-address:

E-mail: cclservices1@btconnect.com

#### 8. COMMENTS AND REQUESTS FOR WARPAINT

As stated in the Introduction all requests for copies of Warpaint or comments on any subject matter should be emailed *for consideration* to <a href="mailto:DESSESea-MT5@mod.uk">DESSESea-MT5@mod.uk</a>

\*Please mark the subject heading "WARPAINT"

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Proposed Systems/Materials	Number of coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
A. <u>UNDERWATER PRIMER (Re-blast)</u> ~							
(I) Standard: UMEGUARD HS SILVER*	1	150	5.93	20 hrs	30 days	158	99-264-0145 99-264-0145
(ii) Tie per coat: SILVAX SQ K	1	50	6.0	8 hrs	#	620	99-204-0143
B. UNDERWATER PRIMER (Touch Up at Docking)	10			96			
(I) Standard: UMEGUARD HS SILVER*	1	150	5.93	20 hrs	30 days	158	99-264-0145
(ii) Tie-coat: SILVAX SQ K	1	50	6.0	8 hrs	#	620	
C. ANTIFOULING (Tin Free - 5yr life)	NA.			7			
SEA GRANDPRIX 500	3	125	3.76	5 hrs	#	484	
D. ANTIFOULING (FOUL RELEASE 5+ yr life)		2					
E. ANTIFOULING (Tin Free 3+ yr life)	4				NVA		
TFA 10	2	125	5.44	5 hrs	#	383	
F. BOOTTOP ANTIFOULING (Tin Free)						W.	
SEAJET 33	2	125	3.52	5 hrs	#	485	
G. A/W HULL & SUPERSTRUCTURE PRIMER (Reblast)						St.	
UMEGUARD HS SILVER*	1	125	7.40	20 hrs	30 days	158	99-264-0145
H. A/W HULL & SUPERSTRUCTURE PRIMER (Touch Up)	1		17/	Ú		,	
(i) Standard: UMEGUARD HS SILVER*	1	125	7.40	20 hrs	30 days	158	99-264-0145
(ii) Alternative: CAMACRYL ZP PRIMER	2	60	6.66	6 hrs	#	50	99-125-9909
J. AW HULL & SUPERSTRUCTURE							
(i) Standard: CAMSIL WB GF WATERBASED FINISH	2	25	14.40	16 hrs	#	116	99-327-9058
Light Weatherwork GreyBS381C 676 (ii) Alternative: HD WEATHERWORK FINISH	1	40	11.80	16 hrs	#	400	
Light Weatherwork GreyBS381C 676 (iii) Tie-coat (if required): Weatherwork U/C	1	50	11.40	16 hrs	#	380	
(iv) Sealer for RASH							

	Proposed Systems/Materials	Number of coats	NDFT per coat Microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
K FLIGHT & W	EATHERDECK SYSTEMS – DEF STAN 80-134							
(a). Hangar Doo	<u>ors</u>							
Primer:	UMEGUARD HS SILVER*	1	125	7.40	20 hrs	30 days	158	99-264-0145
Finish:	CAMSIL WB GF WATERBASED FINISH Light Weatherwork Grey BS381C 676	2	25	14.40	16 hrs	#	116	88-327-9058
(b). Flightdeck -	Type 2 Non-skid Finish	7						
Primer:	UMEGUARD HS SILVER	172 K	125	7.40	20 hrs	30 days	158	99-264-0145
Finish:	CAMIDECK FINISH TYPE II Extra Dark Sea Grey BS381C 640	2	208	2.83	16 hrs	#	374	99-147-1303
Type 2 Repair I	•		3(0)					99-577-3550
(c). Hangar De	cks & Weatherdecks - Type 1 Non-skid Finish:							
<u>Primer</u> :	UMEGUARD HS SILVER	1	125	7.40	20 hrs	30 days	158	99-264-0145
Hanger Deck	CAMIDECK FINISH TYPE I Dark Admiralty Grey BS381C 632	2	190	2.84	16 hrs	#	374	99-541-9581
Weatherdecks	CAMIDECK FINISH TYPE I Extra Dark Sea Grey BS381C 640	2	190	2.84	16 hrs	#	374	
Type 1 Repair K	<u>it:</u>		1			$M/\lambda$		
(d). Gloss for D	Deck Margins: UMEGUARD HS GREY Extra Dark Sea Grey BS381C 640	2	75	11.86	20 hrs	30 days	158	99-126-9478
L. INTERIOR D	RY SPACES (Complete Represervation)	200		77	<i>3</i> 7			
(i <u>) Standard Pr</u> <u>Finish:</u> CA	<u>imer:</u> UMEGUARD HS SILVER MACRYL FINISH MAC BS4800 00A01	1 2	125 40	7.40 11	20 hrs 24 hrs	30 days #	158 33	99-264-0145 99-676-4126
or <u>Alternative Fin</u>	ish: AQUALIFE GLOSS FINISH BS4800 00A01	2	40	10	16 hrs	7 days	132	99-757-9334
M. INTERIOR D	RY SPACES (Touch up)							
(i) Standard Pr Finish: CAN	i <u>mer:</u> UMEGUARD HS SILVER MACRYL FINISH MAC	1 2	125 40	7.40 11	20 hrs 24 hrs	30 days #	158 33	99-264-0145 99-676-4126
Alternative Fin	ish: AQUALIFE GLOSS FINISH BS4800 00A01	2	40	10	16 hrs	7 days	132	99-757-9334
	<u>Primer:</u> CAMACRYL ZP PRIMER ACRYL FINISH MAC	2 2	60 40	6.66 11	6 hrs 24 hrs	#	50 33	99-125-9909 99-676-4126
Alternative Fin	ish: AQUALIFE GLOSS FINISH BS4800 00A01	2	40	10	16 hrs	7 days	132	99-757-9334

Propos	ed Systems/Materials	Number of coats	NDFT per coat Microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
N. INTERIOR WET SPAC	ES (Touch up)							
(i) Standard Primer: Finish:	UMEGUARD HS SILVER AQUALIFE GLOSS FINISH Ash Grey BS4800 00A01	1 2	125 40	7.40 10	20 hrs 16 hrs	30 days 7 days	158 132	99-264-0145 99-757-9334
(ii) Citadel lobby Primer: Finish:	UMEGUARD HS SILVER AQUALIFE GLOSS FINISH - Colour BS4800 00A01 or Grey BS381C 676	1 2	125 40	7.40 10	20 hrs 16 hrs	30 days 7 days	158 132	99-264-0145 99-757-9334
(iii) Cleansing Stations Pr E	imer: UMEGUARD HS inish: AQUALIFE GLOSS FINISH White	1 2	125 40	7.40 10	20 hrs 16 hrs	30 days 7 days	158 132	
(iv) Magazine Primer: Finish:	UMEGUARD HS AQUALIFE GLOSS FINISH BS4800 00A01	1 2	125 40	7.40 10	20 hrs 16 hrs	30 days 7 days	158 132	99-126-9478 99-757-9334
O. INTERIOR WET SPACE	ES (Touch up)				MA	M.		
(i) Standard Primer: Finish:	UMEGUARD HS SILVER AQUALIFE GLOSS FINISH Ash Grey BS4800 00A01	1 2	125 40	7.40 10	20 hrs 16 hrs	30 days 7 days	158 132	99-264-0145 99-757-9334
(ii) Citadel lobby Primer: Finish:	UMEGUARD HS SILVER AQUALIFE GLOSS FINISH - Colour BS4800 00A01 or Grey BS381C 676	1 2	125 40	7.40 10	20 hrs 16 hrs	30 days 7 days	158 132	99-264-0145 99-757-9334
(iii) Cleansing Stations Pr	imer: UMEGUARD HS inish: AQUALIFE GLOSS FINISH White	1 2	125 40	7.40 10	20 hrs 16 hrs	30 days 7 days	158 132	
(iv) Magazine Primer: Finish:	UMEGUARD HS AQUALIFE GLOSS FINISH BS4800 00A01	1 2	125 40	7.40 10	20 hrs 16 hrs	30 days 7 days	158 132	99-126-9478 99-757-9334
P. INTERIOR DECKS	BI 41	7		7/-1	Á	7		
(i) Standard Primer: Finish:	AQUALIFE WSE PRIMER AQUALIFE FINISH Green 14C39	2 2	50 40	9 10	16 hrs 16 hrs	# 7 days	0 132	99-398-1182 99-755-6242
(ii) Cleansing Stations Prin Finish:	ner: UMEGUARD HS AQUALIFE FINISH Green 14C39	1 2	125 40	7.40 10	20 hrs 16 hrs	30 days 7 days	158 132	99-755-6242
Q. BATTERY COMPART	MENTS		/					
(i) Primer: UM	EGUARD HS SILVER	1	125	7.40	20 hrs	30 days	108	99-264-0145
(ii) Finish: AQI	JALIFE GLOSS FINISH BS4800 00A01	2	40	10	16 hrs	7 days	132	99-757-9334

Proposed Systems/Materials	Number of coats	NDFT per coat microns	Theo SP m²/litre	Min Recoat interval	Max Recoat interval	VOC gms per ltr	NATO Stock Number
R. CABLE LOCKERS & COFFERDAMS							
(i) UMEGUARD HS SILVER* UMEGUARD HS GREY	1 1	125 125	7.40 7.40	20 hrs 20 hrs	30 days 30 days	108 158	99-264-0145 99-126-9478
Or (ii) NOVA 2000	2	125	6.50	15 hrs	10 days	173	
S. SEWAGE & WATER BALLAST TANKS.			5				
(i) UMEGUARD HS SILVER* UMEGUARD HS GREY	1	125 125	6.50 6.50	15 hrs 15 hrs	10 days 10 days	108 158	99-264-0145 99-126-9478
Or (ii) NOVA 2000	2	125	6.50	15 hrs	10 days	173	
T. MACHINERY SPACE BILGES	2			17.			
(i) UMEGUARD HS SILVER UMEGUARD HS WHITE	1	125 125	6.50 6.50	15 hrs 15 hrs	10 days 10 days	108 158	99-264-0145 99-564-2409
Or (ii) NOVA 2000	2	125	6.50	15 hrs	10 days	173	
U. AVCAT, DIESO, LUB & HYDRAULIC OIL TANKS SYSTEM  DEF STAN 80-97 (HIGH SOLIDS)							
(i) Standard: NOVA 2000*	2	125	6.50	15 hrs	10 days	173	
(ii) Alternative: CLEANKEEP 5000*	1	300	3.33	48 hrs	7 days	0	
V. POTABLE WATER TANKS							
CLEENKEEP 5000*	1	300	3.33	48 hrs	7 days	0	
W. AQUEOUS FILM-FORMING FOAM (AFFF) TANKS	CODE.	D)	7/-	Á	4		
EPICON T800 PRIMER	1	25	13.80	8 hrs	15 days	422	
EPICON T800 FINISH	2	125	4.56	12 hrs	7 days	407	
X. DEMINERALISED WATER TANKS (Max Temperature 90°C	7						
EPICON T800 PRIMER	1	25	13.80	8 hrs	15 days	422	
EPICON T800 FINISH	2	125	4.56	12 hrs	7 days	407	
Y. EPOXY HOLDING PRIMER							
NZ PRIMER S (ex SHOT-o-KOTE)	1	25	15.9	16 hrs	#	641	

#### **CHUGOKU PAINTS (UK) Ltd**

Pro	posed Systems/Materials	Number of oats	NDFT per coat Microns		Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
Z. PRIMERS FOR NO	ON-FERROUS METALS							
(i) <u>Aluminium</u> :	ALP 500	1	50	11.6	10 hrs	#	414	99-967-8636
(ii) Stainless Steel:	UMEGUARD HS	1	125	7.40	20 hrs	30 days	158	99-126-9478
(iii) Zinc Spray:	GALVANITE 200	1	30	14.10	4 hrs	30 days	587	99-290-5829
(iv) <u>Galvanise</u> :	GALVANITE 200	1	30	14.10	4 hrs	30 days	587	99-290-5829
(v) FRP Indicator coa				2/2	9			

#### Notes:

- The recoat intervals published above are based on the manufacturer's figures quoted for 20°C
- 2. The number of coats stated in the above table, relate to airless spray application to achieve the stated dry film thickness (NDFT). Should brush application be required for touch up and repair then additional coats may be necessary to achieve the required NDFT.
- 3. # = No maximum recoat interval, see Manufacturer's Technical Data Sheet/Application Instructions for requirements.
- 4. It is important to ensure that surfaces are clean and free of contamination when overcoating materials, that have been left exposed, this is especially true for those products with an indefinite recoat interval.
- 5. The Theoretical Spreading Rate (TSR) quoted in the table above is calculated from the coatings physical constants and makes no allowance for loss and assumes a totally smooth surface. The actual spreading rate achieved Practical Spreading Rate (PSR) is dependent upon many factors and in practice the factor used may vary from as little as 1.05 up to as much as 4+. It is usual for paint manufactures to use figures of 1.3 or 1.4 for estimating purposes but they always add the caveat that actual consumption achieved may vary due to such factors as surface profile, wastage due to material left in the can, weather conditions, skill of operator etc.
- 6. ~ = Use blast primer Y. when appropriate

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Hen	mpel's propos	ed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
A. UNDER	RWATER PRIMI	ER (Re-blast) ~		1					
(i) <u>Sta</u>	tandard:	HEMPADUR 45880 MIO 1243	1	175	4.6	8 hrs	30days	198	99-803-7233
(ii) Alte	ernative:	HEMPADUR QUATTRO 17634	7	175	4.1	6 hrs	90 days	275	
(iii) <u>Tie (</u>	Coat:	HEMPADUR 45182	1	75	6.1	6 hrs	5 days	485	99-893-9646
(iv) <u>Tie (</u>	Coat For <b>D</b> .	HEMPEL NEXUS 27302	1	120	5.8	6 hrs	24 hrs	265	
B. UNDER	RWATER PRIMI	ER (T/U at Docking)		XO.					
(ii) <u>Sta</u>	tandard:	HEMPADUR 45880 MIO 12430	1	175	4.6	8 hrs	30 days	198	99-803-7233
(ii) Alter	ernative_	HEMPADUR QUATTRO 17634	1	175	4.1	6 hrs	90 days	275	
(iii) <u>Tie (</u>	Coat:	HEMPADUR 45182	1	75	6.1	6 hrs	5 days	485	99-893-9646
(iv) <u>Tie</u>	e Coat For <b>D</b> :	HEMPEL NEXUS 27302	1	120	5.8	6 hrs	24 hrs	265	
C. ANTIFO	OULING (Tin Fi	ree – 5 year life)							
HEI	EMPELS ANTI-F	FOULING GLOBIC NCT 8195N	2	130	4.2	10 hrs	#	410	
D. ANTIFO	OULING (FOUL	RELEASE 5+ yr life)		148			1/2		
HEN	MPASIL X3 875	500	1	150	4.7	6 hrs	#	265	
E. ANTIFO	OULING (Tin Fr	ree 3+ year life)	2000.		10		124		
(i) <u>Sta</u>	tandard:	OLYMPIC 86950	2	100	5.0	8 hrs	#	470	
(ii) <u>Alt</u>	ternative:	GLOBIC NCT 8195N	2	100	5.5	10 hrs	#	410	
<b>F</b> . <u>BOOTT</u>	TOP ANTIFOUL	_ING (Tin Free)							
	OLYMPIO	C 86950	2	100	5.0	8 hrs	#	470	99-147-9828
G. <u>A/W I</u>	HULL & SUPER	RSTRUCTURE PRIMER (Reblast)	V						
(i) <u>Sta</u>	tandard: HEM	MPADUR 45880 MIO 12430	1	150	6.0	8 hrs	#	198	99-803-7233
<b>H.</b> <u>A/W</u>	HULL & SUPE	RSTRUCTURE PRIMER (Touch Up)							
(i) <u>Sta</u>	tandard:	HEMPADUR 45880 MIO 12430	1	150	6.0	8 hrs	#	198	99-803-7233
(ii) <u>Alt</u>	ternative :	HEMUCRYL PRIMER 18100	2	30	15.7	4 hrs	#	65	99-909-6026

	Hempel's proposed S	ystems/Materials	Number of	NDFT per coat	Theo SR	Min Recoat	Max Recoat	VOC gms	NATO Stock
			Coats	microns	m²/litre	Interval	Interval	per ltr	Number
H. <u>/</u>	A/W HULL & SUPERST	RUCTURE PRIMER (Touch Up)							
(iii)	Standard: HI	EMPADUR 45880 MIO 12430		150	6.0	8 hrs	#	198	99-803-7233
(iv)	Alternative : HE	MUCRYL PRIMER 18100	2	30	15.7	4 hrs	#	65	99-909-6026
J. <u>A</u> ///	/ HULL & SUPERSTRUC	CTURE FINISH (Reblast)	285	/ (X	700				
(i)		IPEL'S PRO ACRYLIC 55880 t Weatherwork Grey BS 381C 676	1	50	12.0	12 hrs	#	380	
(ii)		PEL'S SILICONE ALKYD FINISH 536GB t Weatherwork Grey BS 381C 676	(7)	35	15.4	8 hrs	1-2 days	410	99-772-5448
(iii)	Tie Coat – (if required	HEMPEL'S UNDERCOAT 424GB	1	40	12.5	8 hrs	7 days	385	99-224-6752
(iv)	Sealer for RASH	HEMUCRYL 18100	-1	30	15.7	4 hrs	#	65	99-909-6062
K. FLI	GHT & WEATHERDEC	( SYSTEMS – DEF STAN 80-134	77)						
<u>(a)</u>	Hangar Doors						1/1		
(i)	Primer:	HEMPADUR 45880 MIO 12430	1	100	8.0	7 hrs	#	198	99-803-7233
(ii)	Finish:	HEMPEL'S PRO ACRYLIC 55880 Light Weatherwork Grey BS 381C 676	1966.	50	12.0	12 hrs	#	380	
<u>(b)</u> F	Flight Deck - Type 2 Non	-skid Finish:		m. (		A			
(i)	Primer:	HEMPADUR 45880 MIO 12430	1	100	8.0	7 hrs	#	198	99-803-7233
(ii)	Finish:	HEMPEL'S NON SKID 457GB Extra Dark Sea Grey BS 381C 640	2	400	1.9	6 hrs	30days	206	99-831-0343
(iv)	Type 2 Repair Kit:	HEMPEL'S DECK REPAIR KIT 941 GB Extra Dark Sea Grey BS 381C 640							99-340-2100
(c) H	Hangar Deck & Weatherd	deck - Type 1 Non-skid Finish:		777					
(i)	Primer:	HEMPADUR 45880 MIO 12430	1	100	8.0	7 hrs	#	198	99-803-7233
(ii)	Hangar Deck – Finish:	HEMPEL'S NON SKID 45340 Dark Admiralty Grey BS 381C 632	2	200	3.2	6 hrs	30days	347	99-670-9581
(iii)	Weatherdeck - Finish:	HEMPEL'S NON SKID 45340 Extra Dark Sea Grey BS 381C 640	2	200	3.2	6 hrs	30days	347	99-213-1121
(iv)	Type 1 Repair Kit:	HEMPEL'S DECK REPAIR KIT 942GB Extra Dark Sea Grey BS 381C 640							99-471-2960
<u>(d)</u>	Gloss for Deck Margins	HEMPEL'S NON SKID 457GA	2	125	5.0	5 hrs	#	330	99-879-5150

Hempel's proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
L. INTERIOR DRY COMPARTMENTS (Complete Represervation)	7.1	7.6					
(i) <u>Standard Primer:</u> HEMPADUR 45880	1	125	6.4	7 hrs	#	198	99-803-7233
(ii) Alternative Primer: HEMUCRYL Primer High Build 18032	1	75	5.7	2 hrs	#	45	
(iii) Finish: HEMUCRYL ENAMEL 58100 BS 4800 00A01	2	30	13.7	6 hrs	#	70	99-660-9288
(iv) Alternative Finish HEMPEL'S WATER BASED EPOXY 48580 BS 4800 00A01	1	80	6.9	12 hrs	15 days	27	99-988-2715
M. INTERIOR DRY COMPARTMENTS (Touch up)	2	7/0					
(i) Standard Primer: HEMPADUR 45880	1	125	6.4	7 hrs	#	198	99-803-7233
(ii) Alternative Primer: HEMUCRYL Primer High Build 18030	1	75	5.7	2 hrs	#	45	
(iii) <u>Finish:</u> HEMUCRYL ENAMEL 58100	2	30	13.7	6 hrs	#	70	99-660-9288
BS 4800 00A01 (iv) Alternative Finish: HEMPEL'S WATER BASED EPOXY BS 4800 00A01	1	80	6.9	12 hrs	15 days	27	99-988-2715
N INTERIOR WET COMPARTMENTS (Complete Research					1//		
N. INTERIOR WET COMPARTMENTS (Complete Represervation)     (a) Standard areas	$\times$						
(a) <u>Standard areas</u> (i) <u>Primer:</u> HEMPADUR 45880	1	125	6.4	7 hrs	#	198	99-803-7233
	All the				1/2/		33-003-1233
(ii) Alternative Primer A: HEMPADUR 17634	<i>(1)</i> 1	125	5.8	5 hrs	#	275	
(iii) Alternative Primer B: HEMUDUR 18500	1	60	8.8	6 hrs	1 week	25	99-867-8090
(iv) Finish: HEMPEL'S WATER BASED EPOXY 48580 BS 4800 00A01	1	80	6.9	12 hrs	15 days	27	99-988-2715
(b) <u>Citadel Lobby</u>							
(i) Primer: HEMPADUR 45880	1	125	6.4	7 hrs	#	198	99-803-7233
(ii) Finish: HEMPEL'S WATER BASED EPOXY 48580 BS 4800 00A01 or Grey BS 381C 676	1	80	6.9	12 hrs	15 days	27	99-988-2715
(c) <u>Cleansing Stations</u>							
(i) <u>Primer:</u> HEMPADUR 45880	1	125	6.4	7 hrs	#	198	99-803-7233
(ii) Finish: HEMPADUR 45143 White	1	100	6.0	8 hrs	#	375	99-602-7280

	Hempel's propo	sed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
<b>N</b> . <u>I</u>	NTERIOR WET C	OMPARTMENTS (cont)		3					
(d)	Aluminium Free C	Coatings for Magazine Use		1 ~0	مم.				
(i)	Primer:	HEMPADUR 45880	1	100	8.0	7 hrs	#	198	99-803-7233
(ii)	Finish:	HEMPEL'S WATER BASED EPOXY 48580 BS 4800 00A01		80	6.9	1 hrs	15 days	27	99-988-2715
<b>O</b> . <u>I</u>	NTERIOR WET C	COMPARTMENTS (Touch up)							
(a)	Standard areas		2814	XO.					
(i)	Primer:	HEMPADUR 45880	1	125	6.4	7 hrs	#	198	99-803-7233
(ii)	Finish:	HEMPEL'S WATER BASED EPOXY 48580 BS 4800 00A01	6	80	6.9	12 hrs	15 days	27	99-988-2715
(b)	Citadel Lobby			18	ь		A		
(i)	Primer:	HEMPADUR 45880	1	125	6.4	7 hrs	#	198	99-803-7233
(ii)	Finish:	HEMPEL'S WATER BASED EPOXY 48580 BS 4800 00A01 or Grey BS 381C 676	1	80	6.9	12 hrs	15 days	27	99-988-2715
(c)	Cleansing Station	<u>ns</u>							
(i)	Primer:	HEMPADUR 45880	1	125	6.4	7 hrs	#	198	99-803-7233
(ii)	Finish:	HEMPADUR 45143 White 10000	1	100	6.0	8 hrs	#	375	99-602-7280
(d)	Aluminium Free (	Coatings for Magazine Use			76				
(i)	Primer:	HEMPADUR 45880	1	100	8.0	7 hrs	#	198	99-803-7233
(ii)	Finish:	HEMPEL'S WATER BASED EPOXY 48580 BS 4800 00A01	1	80	6.9	12 hrs	15 days	27	99-988-2715
P INT	TERIOR DECKS					-			
(i)	Standard Primer	: HEMPADUR 45880		125	6.4	7 hrs	#	198	99-803-7233
(ii)		MPEL'S WATER BASED EPOXY 48580 BS 4800 Green 14C39	1	80	6.9	12 hrs	15 days	27	99-279-8221
(iii)	Cleansing Station	ns Primer: HEMPADUR 45880	1	125	6.4	7 hrs	#	220	99-803-7233
(iii)	Finish: HEM	MPADUR 45143 BS 4800 Green 14C39	1	100	6.0	8 hrs	#	375	99-471-1920

Hempel's proposed Systems/Materials	Number of coats	NDFT per coat microns		Min recoat interval	Max recoat interval	VOC grms per litre	NATO Stock Number
Q. BATTERY COMPARTMENTS	1581						
(i) <u>Primer:</u> HEMPADUR 45880	1	150	6.0	8 hrs	#	198	99-803-7233
(ii) Alternative Primer: HEMUDUR 18500	1	60	8.5	6 hrs	1week	20	99-867-8090
(iii) Finish: HEMPEL'S WATERBASED EPOXY 48580 BS 4800 00A01	1	80	6.9	12 hrs	15 days	27	99-988-2715
R. CABLE LOCKERS & COFFERDAMS			7				
HEMPADUR 45880 White	<u>] == [</u>	150	6.0	8 hrs	#	217	99-264-0387
S. SEWAGE & WATER BALLAST TANKS.							
(i) Water Ballast Tanks: HEMPADUR QUATTRO 17634	2	150	4.8	6 hrs	90 days	275	
(ii) Sewage Tanks: HEMPADUR 85671	3	100	6.8	36 hrs	5 days	320	
T. MACHINERY SPACE BILGES				74	V)		
HEMPADUR 45880 White	2	125	6.4	7hrs	#	217	99-264-0387
U. AVCAT, DIESO, LUB & HYDRAULIC OIL TANKS SYSTEM - DEF STAN 80-97 (HIGH SOLIDS)		, in			6		
(i) <u>Standard</u> HEMPADUR 85671	3	100	6.8	36hrs	21 days	320	
(ii) Alternative HEMPADUR 35530	2	200	5.0	24hrs	5 days	10	
V. POTABLE WATER TANKS		141	)	A	7		
(i) <u>Standard</u> HEMPADUR MULTI STRENGTH 35530	2	200	5.0	24 hrs	5 days	10	
(ii) Alternative for touch up HEMPEL'S TAPECRETE 68180	1	500	1.9	2-3 hrs	#	0	99-302-2646
W. AQUEOUS FILM-FORMING FOAM (AFFF) TANKS	1118	1	*				
HEMPADUR 85671	3	100	6.8	36 hrs	21 days	320	
X. DEMINERALISED WATER TANKS (Max Temperature 90°C)							
HEMPADUR 85671	3	100	6.8	36 hrs	21 days	320	
Y. EPOXY HOLDING PRIMER							
HEMPADUR 15570	1	40	13.5	#	#	420	99-943-1152

#### **HEMPEL UK LTD**

Hempel's proposed Systems/Materials		NDFT per coat microns		Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
Z. PRIMERS FOR NON-FERROUS METALS							
(i) <u>Aluminium</u> HEMUCRYL TIE COA	, ,	20	19.0	24 hrs	#	40	99-199-2908
HEMPADUR 15553 (2		50	11.0	2 hrs	#	400	99-870-0653
(ii) <u>Stainless Steel</u> HEMUCRYL TIE COA		20	19.0	24 hrs	#	40	99-199-2908
HEMPADUR 15553 (2		50	11.0	2 hrs	#	400	99-870-0653
(iii) Zinc Spray HEMUCRYL TIE COAT		20	19.0	24 hrs	#	40	99-199-2908
Galvanise HEMPADUR 15553 (2		50	11.0	2 hrs	#	400	99-870-0653
(iv) Indicator Coat for FRP GELPROTECT	////	200	5.0	8 hrs	5 days	10	99-517-4318

#### Notes:

- The recoat intervals published above are based on the manufacturer's figures quoted for 20°C
- The number of coats stated in the above table, relate to airless spray application to achieve the stated Nominal Dry Film Thickness (NDFT). Should brush application be required for touch up and repair then additional coats may be necessary to achieve the required NDFT.
- 3. # See Manufacturer's Technical Data Sheet/Application Instructions for requirements.
- 4. It is important to ensure that surfaces are clean and free of contamination when overcoating materials, that have been left exposed, this is especially true for those products with an indefinite recoat interval.
- 5. The Theoretical Spreading Rate (Theo SR) quoted in the table above is calculated from the coatings physical constants and makes no allowance for loss and assumes a totally smooth surface. The actual spreading rate achieved (Practical SR) is dependent upon many factors and in practice the factor used may vary from as little as 1.05 up to as much as 4+. It is usual for paint manufactures to use figures of 1.3 or 1.4 for estimating purposes but they always add the caveat that actual consumption achieved may vary due to such factors as surface profile, wastage due to material left in the can, weather conditions, skill of operator etc.
- 6.  $\sim$  = Use blast primer **Y.** when appropriate.

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	Proposed System	s/Materials	Number of Coats	per coat		Min Recoat Interval	Max Recoat Interval	VOC gms Per ltr	NATO Stock Number
A. UNDE	RWATER PRIMER (Re-blast)	~							
(i)	Standard:	INTERGARD 5000	1	175	4.68	12 hrs	2 months	179	
(ii)	Alternative:	INTERSHIELD 300 Foul Release only (Area D)	2	125	4.80	7 hrs	14 days	313	
(iii)	Tie Coat for C:	INTERGARD 263	-1	75	7.60	8 hrs	5 days	379	99-133-3854
(iv)	Tie Coat for D (if needed):	INTERSLEEK 737	1	100	6.5	4 hrs	7 days	325	
B. UNDE	RWATER PRIMER (T/U at Do	ocking)		3					
(i)	Standard:	INTERGARD 5000	<u> 1</u> 1	175	4.68	12 hrs	2 months	179	
(ii)	Alternative:	INTERSHIELD 300 Foul Release only (Area D)	2	125	4.80	7 hrs	14 days	313	
(iii)	Tie Coat for C:	INTERGARD 263	1	75	7.60	8 hrs	5 days	379	99-133-3854
(iv)	Tie Coat for D (if needed):	INTERSLEEK 737	1	100	6.5	4 hrs	7 days	325	
C. ANTIF	OULING (Tin Free - 5yr life)					(/).			
(i)	INTERSMOOTH 7460		2	125	3.20	12 hrs	28 days	425	
D. ANTI	FOULING (FOUL RELEASE 5	+ yr life)							
(i)	Standard INTERSLEEK	757	1	150	4.80	24 hrs		325	
(ii)	Alternative INTERSLEER	( 970	1	150	4.8	24 hrs		248	
E. ANTIF	OULING (Tin Free 3+ yr life)	758 3	4		A	7			
(i)	Standard: INTERSPEED	6400		75	8.00	6 hrs	3 months	358	
<b>F</b> . <u>BOOT</u>	TOP ANTIFOULING (Tin Free				3				
(i)	Standard: INTERSPEED	6400 Black	2	60	10.00	6 hrs	3 months	358	
<b>G</b> . <u>A/W</u>	HULL & SUPERSTRUCTURE	PRIMER (Re-blast)							
(i)	INTERGARD 5000		1	150	5.47	12 hrs	14 days	179	

	Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms Per ltr	NATO Stock Number
H. <u>A/W HU</u>	LL & SUPERSTRUCTURE PRIMER (Touch Up)							
(i)	INTERGARD 5000 Dawn Grey BS 4800 00A01	1	150	5.47	12 hrs	14 days	179	99-000-5256
<b>J</b> . <u>A/W HUI</u>	L & SUPERSTRUCTURE FINISH	عوو	97					
(i)	Standard: INTERFINE 691 HS BS 381C 676	_1_	50	10.6	8 hrs	#	409	99-864-5322
(ii)	Alternative: INTERLAC 846	_1	35	15.14	24 hrs	4 days	325	99-700-8410
(iii)	Tie Coat (if required): INTERPRIME 198 CPA098	10	35	11.71	24 hrs	3 days	419	
K. FLIGHT	& WEATHERDECK SYSTEMS – DEF STAN 80-134		7					
(a) Hangar	Doors							
Primer:	INTERGARD 5000	1	150	5.47	12 hrs	14 days	179	99-000-5256
Finish:	INTERFINE 691 HS Grey BS 381C 676	1	50	10.6	8 hrs	#	409	99-864-5322
(b) Flightde	ck - Type 2 Non-skid Finish	2			i)			
Primer:	INTERGARD 5000 Dawn Grey BS 4800 00A01	51	150	5.47	12 hrs	14 days	179	99-000-5256
Finish:	INTERSHIELD 851 Extra Dark Sea Grey BS 381C 640	2	300	1.28	16 hrs	#	169	99-391-0953
Type 2 Rep	aair Kit:							
Intershield 8	851 – Extra Dark Sea Grey (BS 381C 640)		(F)		1/2			99-325-0579
(c) Hanger	Deck & Weatherdeck - Type 1 Non-skid Finish:				1/2/			
Primer:	INTERGARD 5000 Dawn Grey BS 4800 00A01	1	150	5.47	12 hrs	14 days	179	99-000-5256
Hanger Dec	k: INTERSHIELD 852 Dark Admiralty Grey BS 381C 632	2	200	1.92	12 hrs	#	134	99-149-8996
Weatherded	kk: INTERSHIELD 852 Extra Dark Sea Grey BS 381C 640	2	200	1.92	12 hrs	#	134	99-583-1344
Type 1 Rep	pair Kit:		1					
Intershield	852 – Dark Admiralty Grey BS 381C 632							99-993-9328
(d) Gloss f	or Deck Margins: INTERGARD 740 Extra Dark Sea Grey BS 381C 640	1	50	10.2	16 hrs	#	420	99-182-2627

Propo	osed system Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Iinterval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
L. INTERIOR DRY COMP	PARTMENTS (Complete Represervation)							
(i) <u>Standard Primer:</u> <u>Finish:</u>	INTERGARD 5000 Dawn Grey INTERCRYL 700 BS 4800 00A01	1 1 or 2	125 35	6.56 11.42	12 hrs 60 mins	#	179 18	99-000-5256 99-799-8832
M. INTERIOR DRY COM	PARTMENTS (Touch up)		P					
.,	INTERGARD 5000 Dawn Grey INTERCRYL 700 BS 4800 00A01	1 1 or 2	125 35	6.56 11.42	12 hrs 60 mins	#	179 18	99-000-5256 99-799-8832
N. INTERIOR WET COM	PARTMENTS (Complete Represervation)		7					
(i) <u>Standard Primer:</u> Finish:	INTERGARD 5000 Dawn Grey INTERGARD 1735 BS 4800 00A01	1 1 or 2	125 50	6.56 11.20	24 hrs 12 hrs	#	179 132	99-000-5256 99-255-0527
(ii) <u>Citadel lobby Primer:</u> Finish: Colour either:	INTERGARD 5000 Dawn Grey INTERGARD 1735 BS 4800 00A01 or Grey BS 381C 676	1 1 or 2	125 50	6.56 11.20	24 hrs 12 hrs	#	179 132	99-000-5256 99-255-0527
(iii) <u>Cleansing Stations</u> <u>Primer:</u> Finish:	INTERGARD 840 White INTERFINE 979	1	125 125	6.56 7.60	24 hrs 4 hrs	4 days #	134 165	99-279-8277 99-168-7337
(iv) <u>Magazines</u> <u>Primer:</u> Finish:	INTERGARD 5000 INTERGARD 1735 BS 4800 00A01	1 1 or 2	125 50	6.56 11.20	24 hrs 12 hrs	4 days #	179 132	99-000-5256 99-255-0527
O. INTERIOR WET COM	PARTMENTS (Touch up)		5	7				
(i) <u>Standard Primer:</u> Finish:	INTERGARD 5000 Dawn Grey INTERGARD 1735 BS 4800 00A01	1 1 or 2	125 50	6.56 11.20	24 hrs 12 hrs	#	179 132	99-000-5256 99-255-0527
(ii) <u>Citadel lobby Primer:</u> Finish: Colour either:	INTERGARD 5000 Dawn Grey INTERGARD 1735 BS 4800 00A01 (or Grey BS 381C 676)	1 1 or 2	125 50	6.56 11.20	24 hrs 12 hrs	# #	179 132	99-000-5256 99-255-0527
(iii) <u>Cleansing Stations</u>			d					
<u>Primer:</u> Finish:	INTERGARD 840 White INTERFINE 979	1 1	125 125	6.56 7.60	24 hrs 4 hrs	4 days #	134 165	99-279-8277 99-168-7337
(iv) Magazines Primer: Finish:	INTERGARD 5000 Dawn Grey INTERGARD 1735 BS 4800 00A01	1 1 or 2	125 50	6.56 11.20	24 hrs 12 hrs	# #	179 132	99-000-5256 99-255-0527

Proposed Systems/Materials		Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms Per ltr	NATO Stock Number
P. INTERIOR DECKS								
(i) <u>Standard Primer:</u> <u>Finish:</u>	INTERGARD 5000 Dawn Grey INTERGARD 1735 BS 4800 Green 14C39	1	125 50	6.56 11.20	12 hrs 12 hrs	#	179 132	99-000-5256 99-483-1994
(ii) <u>Cleansing Stations</u>		200	90					
<u>Standard Primer</u> : Finish:	INTERGARD 840 White INTERFINE 979 BS 4800 Green 14C39	1	125 125	6.56 7.60	24 hrs 4 hrs	4 days #	134 165	99-279-8277 99-729-7357
Q. BATTERY COMPARTMENTS		260	72					
Primer:	INTERGARD 5000 Dawn Grey	1	125	6.56	12 hrs	#	179	99-000-5256
Finish:	INTERGARD 1735 BS 4800 00A01	1	50	11.20	12 hrs	#	132	99-255-0527
R. CABLE LOCKERS & COFFERDAMS				M				
	INTERGARD 5000	1	150	5.46	12hrs	3 months	179	
S. SEWAGE & WATER BALLAST TANKS.					V			
Water Ballast Tanks:	INTERGARD 5000	2	125	6.56	12 hrs	3 months	179	
Sewage Tanks:	INTERLINE 850	2	125	6.08	8 hrs	30 days	212	
T. MACHINERY SPACE BILGES			5	2				
(i) <u>Standard:</u>	INTERGARD 5000 White	1	175	4.68	12 hrs	3 months	179	
U. AVCAT, DIESO, LUB & HYDRAULIC OIL TANKS SYSTEM - DEF STAN 80-97 (HIGH SOLIDS)		. 6		Ä				
	INTERLINE 850	2	125	6.08	8 hrs	30 days	212	
V. POTABLE WATER	TANKS			3				
	INTERLINE 925	1	300	3.33	18 hrs	3 days	1	
W. AQUEOUS FILM-FO	DRMING FOAM (AFFF) TANKS							
	INTERLINE 704	2	125	4.24	23 hrs	21 days	385	
X. DEMINERALISED WATER TANKS (Max Temperature 90°C)								
	INTERLINE 925 (up to 60° C only)	1	300	3.33	18 hrs	3 days	1	

#### **INTERNATIONAL PAINT LTD**

Proposed Systems/Materials			NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms Per ltr	NATO Stock Number	
Y. EPOXY	HOLDING PRIMER								
(i)	Standard:	INTERGARD 269	1	30	15.67	6 hrs	#	411	99-983-0743
(ii)	Alternative & Maintenance:	INTERGARD 276	_ <u>1</u> _6	40	11.75	6 hrs	#	411	
Z. PRIME	RS FOR NON-FERROUS ME	TALS & FRP		P					
<u>Aluminit</u>	um, Stainless steel, Zinc Spra	y or Galvanised surfaces:	A)	20					
Star	ndard:	INTERGARD 269	1	30	15.67	6 hrs	#	411	99-983-0743
Alte	rnative:	INTERGARD 276	1	40	11.75	6 hrs	#	411	
Indic	cator Coat for FRP:	I							
INT	ERFINE 925		1	200	5.0	18 hrs	3 days	1	

#### Notes:

- 1. The recoat intervals published above are based on the manufacturer's figures quoted for 25°C
- 2. The number of coats stated in the above table, relate to airless spray application to achieve the stated Nominal Dry Film Thickness (NDFT). Should brush application be required for touch up and repair then additional coats may be necessary to achieve the required NDFT.
- 3. It is important to ensure that surfaces are clean and free of contamination when overcoating materials, that have been left exposed, this is especially true for those products with an indefinite recoat interval.
- 4. # See Manufacturer's Technical Data Sheet/Application Instructions for requirements.
- 5. The Theoretical Spreading Rate (Theo SR) quoted in the table above is calculated from the coatings physical constants and makes no allowance for loss and assumes a totally smooth surface. The actual spreading rate achieved (Practical SR) is dependent upon many factors and in practice the factor used may vary from as little as 1.05 up to as much as 4+. It is usual for paint manufactures to use figures of 1.3 or 1.4 for estimating purposes but they always add the caveat that actual consumption achieved may vary due to such factors as surface profile, wastage due to material left in the can, weather conditions, skill of operator etc.
- 6.  $\sim$  = Use blast primer **Y**. when appropriate

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### **JOTUN PAINTS (EUROPE) LTD**

Proposed Systems /Materials	Number of Coats	NDFT per coat microns		Min Recoat Interval	Max Recoat Interval	VOC gms per litre	NATO Stock Number
A. UNDERWATER PRIMER (Re-Blast)							
(i) Standard: JOTACOTE UNIVERSAL (aluminium)	1	200	3.6	4 hrs	#	240	
(ii) <u>Tie Coat:</u> SAFEGUARD UNIVERSAL ES	1	100	6.2	10 hrs	3 days	330	
B. UNDERWATER PRIMER (T/U at Docking)	11 (		75				
(i) Standard: JOTAMASTIC 87 ALUMINIUM	1	175	5.0	10 hrs	#	110	99-502-2684
(ii) <u>Alternative</u> : JOTACOTE UNIVERSAL (aluminium)	1	175	4.1	4 hrs	#	240	
(iii) <u>Tie Coat</u> : SAFEGUARD UNIVERSAL ES	1	75	8.3	10 hrs	3 days	330	
C. ANTIFOULING (Tin Free - 5 yr life)							
SEAQUANTUM PLUS SEAQUANTUM ULTRA SEAQUANTUM ULTRA	1 1	125 125 125	3.8 3.8 3.8	7 hrs 7 hrs 7 hrs	# # #	460 460 460	
D. FOUL RELEASE  SEALION TIECOAT SEALION REPULSE	1	90 150	6.6 4.8	15 hrs #	4 days #	406 230	
E. ANTIFOULING ( 3 year life)			7.				
SEAFORCE 90 (light red) SEAFORCE 90 (dark red)	1 1	105 105	5.5 5.5	7 hrs 7 hrs	##	370 370	
F. BOOTOP ANTIFOULING	11.1				7		
(i) Standard: SEAQUANTUM CLASSIC (black)	1 or 2	150	3.1	7 hrs	#	460	
(ii) <u>Alternative FRC:</u> SEALION TIECOAT SEALION REPULSE	1	90 150	6.6 4.8	15 hrs #	4 days #	406 230	
G. AW HULL & SUPERSTRUCTURE PRIMER (Re-blast)		The second second		7			
(i) Standard: JOTACOTE UNIVERSAL (aluminium)	1	200	3.6	4 hrs	#	240	
(ii) Alternative: JOTAMASTIC 80 (aluminium)	1	200	4.0	10 hrs	#	145	
(iii) Alternative: WATERFINE PRIMER	2	85	5.4	1.5 hrs	#	60	99-462-9708
H. A/W HULL & SUPERSTRUCTURE PRIMER (T/U)							
(i) Standard: JOTAMASTIC 80 (aluminium)	1	150	5.3	10 hrs	#	145	
(ii) Alternative: JOTACOTE UNIVERSAL (aluminium)	1	150	4.8	4 hrs	#	240	
(iii) Alternative: WATERFINE PRIMER	2	70	6.6	1.5 hrs	#	60	99-462-9708

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### **JOTUN PAINTS (EUROPE) LTD**

Proposed Systems /Materials	Number of Coats	NDFT per coat microns	Theo SR m ²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per litre	NATO Stock Number
J. A/W HULL & SUPERSTRUCTURE FINISH							
(i) Standard: JOTAPROOF TOPCOAT (BS381C 676)	1 or 2	60	10.5	4 hrs	#	310	99-310-9229
(ii) Alternative: CORREX (BS381C 676)		40	12.0	14 hrs	#	390	
Tie Coat for CORREX Finish: VINYGUARD SILVERGREY 88	1	40	9.5	2 hrs	#	530	99-212-5888
K. FLIGHT & WEATHERDECK SYSTEMS – DEF STAN 80-134	1	an)	36				
(a) HANGAR DOORS		2-17	M.				
(i) <u>Standard Primer</u> : JOTAMASTIC 80 (aluminium)	1	150	5.3	10 hrs	#	145	
(ii) Alternative Primer: JOTACOTE UNIVERSAL (aluminium)	1	150	4.8	4 hrs	#	240	
(iii) <u>Alternative</u> : WATERFINE PRIMER	2	70	6.6	1.5 hrs	#	60	99-462-9708
(i) Standard Finish: JOTAPROOF TOPCOAT (BS381C 676)	1 or 2	60	10.5	4 hrs	#	310	99-310-9229
(ii) Alternative Finish: CORREX (BS381C 676)	1	40	12.0	14 hrs	#	390	
Tie Coat for CORREX Finish: VINYGUARD SILVERGREY 88	1	40	9.5	2 hrs	#	530	99-212-5888
(b) FLIGHT DECK SYSTEM - TYPE 2 NON-SKID FINISH					۸.		
Primer: JOTAMASTIC 87	1 1	150	5.5	10 hrs	#	150	99-502-2684
Finish: JOTA ARMOUR (BS381C 640)	2	375	2.4	14 hrs	#	70	99-226-7300
Type 2 Repair Kit: JOTA ARMOUR REPAIR KIT (BS381C 640)			C		11.5		
(c ) HANGAR DECKS & WEATHERDECKS - TYPE 1 NON-SKID FINISH					4		
Primer: JOTAMASTIC 87	12	150	5.5	10 hrs	#	150	99-502-2684
Hangar Deck Finish: JOTA ARMOUR FINE (BS381C 632)	2	200					
Weatherdeck Finish: JOTA ARMOUR FINE (BS381C 640)	2	200					
Type 1 Repair Kit: JOTA ARMOUR FINE REPAIR KIT (BS381C 640 or 632)							
(d) Gloss for Deck Margins							
JOTAPROOF TOPCOAT	1 or 2	60	10.5	4 hrs	#	310	
L. INTERIOR DRY SPACES (Complete Represervation)							
(i) Standard Primer: WATERFINE ACRYLIC PRIMER	1	80	5.8	1 hrs	#	66	
(ii) <u>Alternative Primer</u> : WATERFINE PRIMER	1	80	5.8	1.5 hrs	#	60	99-462-9708
Finish: WATERFINE TOPCOAT (BS4800 00A01)	1 or 2	40	9.2	8 hrs	#	105	99-272-2784

### **JOTUN PAINTS (EUROPE) LTD**

Proposed Systems /Materials	Number of Coats	NDFT per coat microns	Theo SR m ²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per litre	NATO Stock Number
M. INTERIOR DRY SPACES (Touch up)							
(i) Standard Primer: WATERFINE ACRYLIC PRIMER	. 1	80	5.8	1 hr	#	66	
(ii) <u>Alternative Primer</u> : WATERFINE PRIMER	1	80	4.6	1.5 hrs	#	60	99-462-9708
Finish: WATERFINE TOPCOAT (BS4800 00A01)	1 or 2	40	9.2	8 hrs	#	105	99-272-2784
N. INTERIOR WET SPACES (Complete Represervation)			50				
Primer: WATERFINE PRIMER	1	100	4.6	1.5 hrs	#	60	99-462-9708
Finish: WATERFINE PRIMER (BS4800 00A01)	1 or 2	40	11.6	1.5 hrs	#	60	
Citadel Lobby Primer: WATERFINE PRIMER	3-1-5	80	5.8	1.5 hrs	#	60	99-462-9708
Citadel Lobby Finish: WATERFINE PRIMER (BS4800 00A01 or BS381C 676)	1 or 2	40	11.6	1.5 hrs	#	60	
Cleansing Stations Primer:							
Cleansing Stations Finish:							
Magazine Primer: WATERFINE PRIMER	1	100	4.6	1.5 hrs	#	60	99-462-9708
Magazine Finish: WATERFINE PRIMER (BS4800 00A01)	1 or 2	40	11.6	1.5 hrs	#	60	
O. INTERIOR WET SPACES (Touch up)					/h		
Primer: WATERFINE PRIMER	1	100	4.6	1.5 hrs	#	60	99-462-9708
Finish: WATERFINE PRIMER (BS4800 00A01)	1 or 2	40	11.6	1.5 hrs	#	60	
Citadel Lobby Primer: WATERFINE PRIMER	1	100	4.6	1.5 hrs	#	60	99-462-9708
Citadel Lobby Finish: WATERFINE PRIMER (BS4800 00A01 or BS381C 676)	1 or 2	40	11.6	1.5 hrs	#	60	
Cleansing Stations Primer:	4 6	371	J		7		
Cleansing Stations Finish:	والتناوا						
Magazine Primer: WATERFINE PRIMER	1	100	4.6	1.5 hrs	#	60	99-462-9708
Magazine Finish: WATERFINE PRIMER (BS4800 00A01)	1 or 2	40	11.6	1.5 hrs	#	60	
P. INTERIOR DECKS		./					
Primer: WATERFINE PRIMER	1	100	4.6	1.5 hrs	#	60	99-462-9708
Finish: WATERFINE PRIMER (BS4800 14C39)	1 or 2	40	11.6	1.5 hrs	#	60	
Cleansing Stations Primer:							
Cleansing Stations Finish:							

### **JOTUN PAINTS (EUROPE) LTD**

Proposed Systems /Materials	Number of Coats	NDFT per coat microns	Theo SR m ²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per litre	NATO Stock Number
Q. BATTERY COMPARTMENTS							
Primer: WATERFINE PRIMER (grey)	1	100	4.6	1.5 hrs	#	60	99-462-9708
Finish: WATERFINE PRIMER (BS4800 00A01)	1 or 2	40	11.6	1.5 hrs	#	60	
R. CABLE LOCKERS & COFFERDAMS			10				
(i) Standard: JOTAMASTIC 80	1	175	4.6	10 hrs	#	145	
(ii) Alternative: JOTACOTE UNIVERSAL (aluminium)	1	200	3.6	4 hrs	#	240	
S. SEWAGE & WATER BALLAST TANKS	1-5	933	7				
(i) <u>Water Ballast Tanks Standard</u> : BALLOXY HB LIGHT BALLOXY HB LIGHT	1 1	160 160	5.1 5.1	10 hrs 10 hrs	#	150 150	
(ii) Water Ballast Tank Alternative:							
JOTACOTE UNIVERSAL JOTACOTE UNIVERSAL	1	160 160	4.5 4.5	4 hrs 4 hrs	# #	240 240	
(i) <u>Sewage Tanks Standard</u> :	100				Λ.		
TANKGUARD STORAGE TANKGUARD STORAGE	1	150 150	4.2 4.2	10 hrs 10 hrs	30 days 30 days	310 310	
(ii) Sewage Tanks Alternative:					1/1		
TANKGUARD DW TANKGUARD DW	1	150 150	6.7 6.7	12 hrs 12 hrs	5 days 5 days	2 2	
T. MACHINERY SPACE BILGES	111.5		3	0	7		
Primer: JOTACOTE UNIVERSAL (aluminium)		125	5.8	4 hrs	#	240	
Finish: JOTAPROOF TOPCOAT (BS4800 00A01)	1	60	10.5	4 hrs	#	310	
U. AVCAT, DIESO, LUB &HYDRAULIC OIL TANKS SYSTEM DEF STAN 80-97 (HIGH SOLIDS)				3			
TANKGUARD STORAGE TANKGUARD STORAGE	11	125 125	5.0 5.0	10 hrs 10 hrs	30 days 30 days	310 310	
V. POTABLE WATER TANKS							
TANKGUARD DW TANKGUARD DW	1	150 150	6.7 6.7	12 hrs 12 hrs	5 days 5 days	2 2	
W. AQUEOUS FILM-FORMING FOAM (AFFF) TANKS							
TANKGUARD DW TANKGUARD DW	1	150 150	6.7 6.7	12 hrs 12 hrs	5 days 5 days	2 2	

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#### **JOTUN PAINTS (EUROPE) LTD**

Proposed Systems /Materials	Number of Coats	NDFT per coat microns		Min Recoat Interval	Max Recoat Interval	VOC gms per litre	NATO Stock Number
X. DEMINERALISED WATER TANKS (Max Temperature 90 °C)		هم	Q				
TANKGUARD STORAGE TANKGUARD STORAGE TANKGUARD STORAGE	1 1 1	125 125 125	5.0 5.0 5.0	10 hrs 10 hrs 10 hrs	30 days 30 days 30 days	310 310 310	
Y. EPOXY HOLDING PRIMER  MUKI EPS		20	12.5	7 hrs		610	
Z. PRIMERS FOR NON-FERROUS METALS		1/2	7				
(i) Aluminium Standard: WATERFINE PRIMER	1	60	7.6	1.5 hrs	#	60	99-462-9708
(i) Stainless Steel Standard: WATERFINE PRIMER	1	60	7.6	1.5 hrs	#	60	99-462-9708
(i) Zinc Spray / Galvanise Standard: WATERFINE PRIMER	1_	60	7.6	1.5 hrs	#	60	99-462-9708
(ii) FRP Indicator Coat: PENGUARD HB (White)	1	100	5.4	8 hrs	#	390	

#### **NOTES:-**

- 1. The recoat intervals published above are based on the Manufacturer's figures quoted for 23°C
- 2. The number of coats stated in the above table, relate to airless spray application to achieve the stated Nominal Dry Film Thickness (NDFT). Should brush application be required for touch up and repair then additional coats may be necessary to achieve the required NDFT.
- 3. # = See Manufacturer's Technical Data Sheet / Application instructions for requirements.
- 4. It is important to ensure that surfaces are clean and free of contamination when overcoating materials, that have been left exposed, this is especially true for those products with an indefinite recoat interval.
- 5. The Theoretical Spreading Rate (Theo SR) quoted in the table above, per coat, is calculated from the coatings physical constants and makes no allowance for loss and assumes a totally smooth surface. The actual spreading rate achieved (Practical SR) is dependent upon many factors and in practice the factor used may vary from as little as 1.05 up to as much as 4+. It is usual for Paint Manufacturers to use figures of 1.3 or 1.4 for estimating purposes but they always add the caveat that actual consumption achieved may vary due to such factors as surface profile, wastage due to material left in the can, weather conditions, skill of operator etc.
- 6. ~ = Use blast primer Y. when appropriat

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## MAKER COATING SYSTEMS LTD. Incorporating: PPG, Ameron, Sigma & CORROLESS

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
A. UNDERWATER PRIMER (Re-blast)							
(i) <u>Standard:</u> SIGMASHIELD 220 7922 SIGMASHIELD 420 7951 (ii) <u>Tie Coat</u> : SIGMACOVER 525 7902		125 150 100	6.4 5.6 6.1	3½ hrs 3½ hrs 12hrs	14 days 14 days 14 days	262 239 365	99-403-5015 99-723-3658
B. UNDERWATER PRIMER (T/U at Docking)		0	P				
(i) Standard:       SIGMASHIELD 220       7922         SIGMASHIELD 420       7951         (ii) Tie Coat:       SIGMACOVER 525       7902	1 = 13	125 150 100	6.4 5.6 6.1	3½hrs 3½hrs 12hrs	14 days 14 days 14 days	262 239 365	99-403-5015 99-723-3658
C. ANTIFOULING (Tin Free >5yr life)		$\widetilde{\Omega}$					
SIGMA ECOFLEET 530 ( red brown) 7385 SIGMA ECOFLEET 530 ( brown) 7385 SIGMA ECOFLEET 530 ( red brown) 7385		110 110 110	5.4 5.4 5.4	6hrs 6hrs 6hrs	# # #	339 339 339	
D. ANTIFOULING (FOUL RELEASE 5+ yr life)         (i) Standard       SIGMACOVER 295       7947         SIGMASHIELD 610       7978         SIGMAGLIDE 790       7386         SIGMAGLIDE 890       7399	1 1 1 1 1	100 150 150 150	5.5 3.8 5.3 3.4	16hrs 12hrs 12hrs 20mins	10 days 5 days 5 days #	436 436 187	
(ii) Alternative SIGMACOVER 295 7947 SIGMASHIELD 610 7978 SIGMAGLIDE 790 7386 SIGMAGLIDE 990 7397	1 1 1	100 150 150 180	5.5 3.8 5.3 4.4	16hrs 12hrs 12hrs 2 hrs	10 days 5 days 5 days #	436 436 187 248	
E. ANTIFOULING (Tin Free 3+ yr life) SIGMA ECOFLEET 530 (red brown) 7385 SIGMA ECOFLEET 530 (brown) 7385	1	110 110	5.4 5.4	6hrs 6hrs	# #	339 339	
F. BOOTTOP ANTIFOULING (Tin Free)  SIGMA ECOFLEET 530 (black) 7385		110	5.4	6hrs	#	339	
G. A/W HULL & SUPERSTRUCTURE PRIMER (Reblast)							
(i) Standard: AMERLOCK 400C	1	125	7	16hrs	#	106	99-974-7400
(ii) Alternative: SIGMA AQUACOVER 25 7150	2	75	6.6	4hrs	#	37	99-321-6318
H. A/W HULL & SUPERSTRUCTURE PRIMER (Touch Up)							
(i) Standard: AMERLOCK 400C	1	125	7	16hrs	#	106	99-974-7400
(ii) Alternative: SIGMASHIELD 220 7922	1	125	6.4	3½hrs	14 days	262	99-403-5015

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## MAKER COATING SYSTEMS LTD. Incorporating: PPG, Ameron, Sigma & CORROLESS

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
JAW HULL& SUPERSTRUCTURE FINISH							
(I) Standard: SIGMADUR 540 Lt Weatherwork Grey BS381C 676 7740		60	9	8hrs	#	411	
(ii) Alternative: SIGMA AQUACOVER 45 7250	1	50	6.8	5hrs	#	10	99-236-5744
(iii) Tie Coat (if required):	200		5				
(iv) <u>Sealer for RASH</u> SIGMACOVER 566 7454	1	75	5.7	6hrs		494	
K. FLIGHT & WEATHERDECK SYSTEMS - DEFSTAN 80-134	SK C	200					
(a) Hangar Doors			17/				
Primer:         AMERLOCK 400C           Finish:         SIGMADUR 540         7740	1	125 60	7 9	16hrs 8hrs	# #	106 411	99-974-7400
(b) Flight Deck - Type 2 Non-skid Finish:							
Primer: AMERLOCK 400C	1	125	7	16hrs	#	106	99-974-7400
Finish: AMERLOCK 400 NS Extra Dark Sea Grey BS381C	2	400	2.3	16hrs	#	106	99-940-6452
Type 2 Repair Kit: AMERLOCK 400 NS T2R		200					
(c) Hanger Deck & Weatherdeck - Type 1 Non-skid Finish:							
Primer: AMERLOCK 400C	-1	125	7	16hrs	#	106	99-974-7400
Hangar Deck: AMERLOCK 400 NS Dark Admiralty Grey BS 381C 632	2	300	4	16hrs	#	106	
Weatherdeck: AMERLOCK 400 NS Extra Dark Sea Grey BS 381C 640	2	300	4	16hrs	#	106	99-940-6452
Type 1 Repair Kit: AMERLOCK 400 NS T1R		71		7			
(d) Gloss for Deck Margins: AMERLOCK 400C Extra Dark Sea Grey BS 381C 640	1	125	7	16hrs	#	106	
L. INTERIOR DRY COMPARTMENTS (Complete Represervation)  Standard Primer: AMERLOCK 400C  Finish: AMERLOCK 400C BS4800 00A01	1	100 100	7 7	16hrs 16hrs	#	106 106	99-974-7400
M. INTERIOR DRY COMPARTMENTS (Touch up)							
(i) Standard Primer:         AMERLOCK 400C           Finish:         AMERLOCK 400C         BS4800 00A01	1	100 100	7 7	16hrs 16hrs	#	106 106	99-974-7400
(ii) Alternative Primer: SIGMA AQUACOVER 25 7149 Finish: SIGMA AQUACOVER 45 7250	1 1	75 50	5.7 6.8	4hrs 24hrs	# #	25 10	

## MAKER COATING SYSTEMS LTD. Incorporating: PPG, Ameron, Sigma & CORROLESS

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
N. INTERIOR WET COMPARTMENTS (Complete Represervation)	<b>K</b> 1						
(i) Standard Primer: AMERLOCK 400C  Finish: AMERLOCK 400C BS4800 00A01	1	100 100	7 7	16hrs 16hrs	#	106 106	99-974-7400
(ii) Citadel lobby - Primer: AMERLOCK 400C  Finish: AMERLOCK 400C - Colour either BS4800 00A01 or Grey BS381C 676	1	100 100	7 7	16hrs 16hrs	#	106 106	99-974-7400
(iii) Cleansing Stations - Primer: AMERLOCK 400C <u>Finish</u> : AMERON PSX 700 White	1	125 125	7 7.2	16hrs 4.5hrs	#	106 120	99-974-7400 17-113-5689
(iv) Magazines - Primer: AMERLOCK 400C Finish: AMERLOCK 400C BS4800 00A0	1	100 100	7 7	16hrs 16hrs	#	106 106	99-974-7400
O. INTERIOR WET COMPARTMENTS (touch-up)			1111				
(i) Standard Primer: AMERLOCK 400C  Finish: AMERLOCK 400C BS4800 00A0	1	100 100	7 7	16hrs 16hrs	#	106 106	99-974-7400
(ii) Citadel lobby - Primer: AMERLOCK 400C  Finish: AMERLOCK 400C colours - BS4800 00A01 or Grey BS381C 676	1	100 100	7 7	16hrs 16hrs	# #	106 106	99-974-7400
(iii) Cleansing Stations - Primer: AMERLOCK 400C Finish: AMERON PSX 700 White	1	125 125	7 7.2	16hrs 4.5hrs	#	106 120	99-974-7400 17-113-5689
(iv) Magazines - Primer: AMERLOCK 400C  Finish AMERLOCK 400C BS4800 00A01	1	100 100	7 7	16hrs 16hrs	#	106 106	99-974-7400
P. INTERIOR DECKS	1		37	1			
(i) Standard Primer: AMERLOCK 400C  Finish: AMERCOAT 300A BS4800 14C39	1	125 50	7 10.4	16 hrs 16 hrs	#	106 0	99-974-7400 17-113-5690
(ii) Cleansing Stations - Primer: AMERLOCK 400C Finish: AMERON PSX 700 BS4800	1 2	125 125	7 7.2	16hrs 4.5hrs	# #	106 120	99-974-7400 17-113-6169
Q. BATTERY COMPARTMENTS			A				
(i) Primer: AMERLOCK 400C	1	100	7	16hrs	#	106	99-974-7400
(ii) Finish: AMERLOCK 400C BS4800 00A01	1	100	7	16hrs	#	106	
R. CABLE LOCKERS & COFFERDAMS							
SIGMAGUARD CSF 650 7443	1	300	3.3	24hrs	20days	143	
S. SEWAGE & WATER BALLAST TANKS.							
Water Ballast Tanks: CORROLESS EPF CORROLESS RF35	1	200 200	4.8 4.8	16hrs 16hrs	#	80 93	25-150-0972 99-337-0778
Sewage Tanks: CORROLESS EPF CORROLESS RF35	1 1	200 200	4.8 4.8	16hrs 16hrs	#	80 93	25-150-0972 99-337-0778
Alternative: SIGMAGUARD CSF650 7443	1	300	3.3	24hrs	20days	143	

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## MAKER COATING SYSTEMS LTD. Incorporating: PPG, Ameron, Sigma & CORROLESS

F	Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interva	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
T. MACHINERY SP	ACE BILGES							
(i) <u>Standard:</u> A	MERLOCK 400C WHITE	2	125	7	16hrs	#	106	17-108-8248
	LUB & HYDRAULIC OIL TANKS SYSTEM EF-STAN 80-97 (HIGH SOLIDS)			996				
	ORROLESS EPF ORROLESS RF35	1	200 200	4.8 4.8	16 hrs 16hrs	3 days 3 days	80 93	25-150-0972 25-150-0973
V. POTABLE WATE	ER TANKS							
	ORROLESS EPF ORROLESS RF35	1 1	200 200	4.8 4.8	16hrs 16hrs	3 days 3 days	80 93	25-150-0972 99-337-0778
W. AQUEOUS FOA	M FORMING FLUID (AFFF) TANKS							
	ORROLESS EPF ORROLESS RF35	1	200 200	4.8 4.8	16hrs 16hrs	3 days 3 days	80 93	25-150-0972 99-337-0778
Alternative: SI	GMAGUARD CSF 650 7443	1	300	3.3	24hrs	20days	143	
X. DEMINERALISE	D WATER TANKS (Max Temperature 90°C)				H			
(i) <u>Standard</u>	CORROLESS EPF CORROLESS RF35	'1 1	200 200	4.8 4.8	16hrs 16hrs	3 days 3 days	80 93	25-150-0972 99-337-0778
Alternative:	SIGMAGUARD CSF 650 7443	1	300	3.3	24hrs	20days	143	
Y. EPOXY HOLDIN	<u>G PRIMER</u>	I Lo				7		
	SIGMACOVER 280 7417	1	50	11.4	8hrs	6 months	432	99-569-7697
Z. PRIMERS FOR N	NON-FERROUS METALS & FRP							
(i) <u>Aluminium</u> :	AMERLOCK 400C	1	125	7	16hrs	#	106	99-974-7400
(ii) Stainless Steel	SIGMACOVER 280	1	50	11.4	8hrs	#	432	
(iii) Zinc Spray:	AMERLOCK 400C	1	125	7	16hrs	#	106	99-974-7400
(iv) <u>Galvanise</u> :	AMERLOCK 400C	1	125	7	16hrs	#	106	99-974-7400
(v) Indicator coat f	for FRP: AMERLOCK 400C Green Ral 6011	1	125	7	16hrs	#	106	17-120-4829

MAKER COATING SYSTEMS LTD.
Incorporating: PPG, Ameron, Sigma & CORROLESS

#### Notes:

- 1. The recoat intervals published above are based on the manufacturer's figures quoted for 20°C
- 2. The number of coats stated in the above table, relate to airless spray application to achieve the stated Nominal Dry Film Thickness (NDFT). Should brush application be required for touch up and repair then additional coats may be necessary to achieve the required NDFT.
- 3. # = No maximum recoat interval, see Manufacturer's Technical Data Sheet/Application Instructions for requirements.
- 4. It is important to ensure that surfaces are clean and free of contamination when overcoating materials, that have been left exposed, this is especially true for those products with an indefinite recoat interval.
- 5. The Theoretical Spreading Rate (TSR) quoted in the table above is calculated from the coatings physical constants and makes no allowance for loss and assumes a totally smooth surface. The actual spreading rate achieved Practical Spreading Rate (PSR) is dependent upon many factors and in practice the factor used may vary from as little as 1.05 up to as much as 4+. It is usual for paint manufactures to use figures of 1.3 or 1.4 for estimating purposes but they always add the caveat that actual consumption achieved may vary due to such factors as surface profile, wastage due to material left in the can, weather conditions, skill of operator etc.

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### **PPG PROTECTIVE & MARINE COATINGS**

Proposed Systems/Mater	ials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
A. UNDERWATER PRIMER (Re-blast) ~								
(i) Standard: SIGMASHIELD 220 SIGMASHIELD 420 (ii) Tie Coat: SIGMACOVER 525	7922 7951 7902	111	125 150 100	6.4 5.6 6.1	3½ hrs 3½ hrs 12 hrs	14 days 14 days 14 days	262 239 365	99-403-5015 99-723-3658
B. UNDERWATER PRIMER (T/U at Docking)				P				
(i) Standard: SIGMASHIELD 220 SIGMASHIELD 420 (ii) Tie Coat: SIGMACOVER 525	7922 7951 7902	1	125 150 100	6.4 5.6 6.1	3½ hrs 3½ hrs 12 hrs	14 days 14 days 14 days	262 239 365	99-403-5015 99-723-3658
C. ANTIFOULING (Tin Free - 5yr life)	2 1/2	16-38						
SIGMA ECOFLEET 530 (red brown) SIGMA ECOFLEET 530 (brown) SIGMA ECOFLEET 530 (red brown)	7385 7385 7385	1 1	110 110 110	5.4 5.4 5.4	6 hrs 6 hrs 6 hrs	# # #	339 339 339	
D. ANTIFOULING (FOUL RELEASE 5+ yr life	<u>e)</u>							
(i) Standard			أللح					
SIGMASHIELD 220 SIGMASHIELD 610 SIGMAGLIDE 790 SIGMAGLIDE 890	7922 7978 7386 7399	1 1 1 1	125 150 150 150	6.4 3.8 5.3 3.4	3½ hrs 12 hrs 12 hrs 20 mins	14 days 5 days 5 days #	262 437 187 215	99-403-5015
(ii) Alternative:				5%		4		
SIGMACOVER 250 SIGMASHIELD 610 SIGMAGLIDE 790 SIGMAGLIDE 990	7497 7978 7386 7397	1 1 1 1 1 1 1 1	125 150 150 150	4.6 3.8 5.3 4.4	8 hrs 12 hrs 12 hrs 2HRS	3 months 5 days 5 days #	436 437 187 248	
E. ANTIFOULING (Tin Free 3+ yr life)	1/6	ويلاو	//	A	7			
SIGMA ECOFLEET 530 ( red brown) SIGMA ECOFLEET 530 ( brown)	7385 7385	1	110 110	5.4 5.4	6 hrs 6 hrs	#	339 339	
F. BOOTTOP ANTIFOULING (Tin Free)	47							
SIGMA ECOFLEET 530 ( black)	7385	1	110	5.4	6 hrs	#	339	
G. A/W HULL & SUPERSTRUCTURE PRIME	R (Reblast)							
(i) Standard: SIGMACOVER 456 HS	7712	2	125	5.8	8 hrs	#	227	
(ii) Alternative: SIGMA AQUACOVER 25	7150	2	75	6.6	4 hrs	#	31	99-321-6318

### **PPG PROTECTIVE & MARINE COATINGS**

Proposed Systems/Material	<u>s</u>	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
H. A/W HULL & SUPERSTRUCTURE PRIMER	(Touch Up)							
(i) Standard: SIGMACOVER 456 HS	7712	1	125	5.8	8 hrs	#	227	
(ii) Alternative SIGMASHIELD 220	7922	1	150	5.3	3½ hrs	14 days	262	99-403-5015
J. AW HULL & SUPERSTRUCTURE FINISH	d(			P				
(i) <u>Standard:</u> SIGMADUR 540 BS 381C 676 Light Weatherw	7740 ork Grey		60	9.0	8 hrs	#	411	
(ii) <u>Alternative:</u> SIGMA AQUACOVER 4	5 7250	1	50	6.8	6 hrs	#	10	99-236-5744
(iii) <u>Tie Coat: (if required for Silicone Alk</u>	yd Finish)	FLESK						
(iv) <u>Sealer for RASH:</u> SIGMACOVER 5	566 7454	1	75	5.7	6 hrs	#	494	
K. FLIGHT & WEATHERDECK SYSTEMS – DE	F STAN 80-134							
(a) Hangar Doors			8	Ì	W.			
Primer: SIGMACOVER 456 HS	7712	2	75	9.7	8 hrs	#	277	
<u>Finish:</u> SIGMADUR 540	7740	1	50	12	8 hrs	#	411	
(b) Flight Deck - Type 2 Non-skid Finish						//		
Primer: SIGMARITE FLIGHT DECK PRIM	IER 7937	1	200	3.9	8 hrs	14 days	216	
<u>Finish:</u> SIGMARITE FLIGHT DECK COATING Sea Grey BS 381C 640	7969 Extra Dark	2	800	1.0	8 hrs	28 days	192	
Type 2 Repair Kit:				0		7		
(c) Hanger Deck & Weatherdeck - Type 1 Non-S	Skid Finish	ld Pa	14		All I	,		
Primer: SIGMARITE FLIGHT DECK PRIM	ER 7937	1 2	200	3.9	8 hrs	14 days	216	
Hangar Deck: Dark Admiralty Grey BS 381C 632								
Weatherdeck: Extra Dark Sea Grey BS 381C 640								
Type 1 Repair Kit:		V						
(d) Gloss for Deck Margins:								
L. INTERIOR DRY SPACES (Complete Represe	rvation)							
(i) <u>Standard:</u> <u>Primer</u> SIGMA AQUACOVER <u>Finish</u> SIGMA AQUACOVER BS 4800 00A01		1 1	75 50	6.6 6.8	4 hrs 6 hrs	#	31 17	99-321-6318 99-277-8693
(ii) <u>Alternative: Primer</u> SIGMACOVER 456 Finish SIGMA AQUACOVEF BS 4800 00A01		1 1	75 50	9.7 6.8	8 hrs 6 hrs	#	227 17	99-277-8693
		<u> </u>	<u> </u>	1		<u> </u>		

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### **PPG PROTECTIVE & MARINE COATINGS**

Finish: SIGMA AQUACOVER 45   7250   1   50   6.8   6 hrs   #   17   99-	NATO Stock Number
Finish: SIGMA AQUACOVER 45   7250   1   50   6.8   6 hrs   #   17   99-	
N.   INTERIOR WET SPACES (Complete Represervation)   N.   INTERIOR WET SPACES (Complete Represervation)	9-321-6318 9-277-8693
N. INTERIOR WET SPACES (Complete Represervation)   (i)   Standard   Primer; SIGMACOVER 456 HS   7712   1   75   9.7   8 hrs   14 days   212   99-	9-277-8693
(i) Standard Primer: SIGMACOVER 456 HS 7712 1 75 9.7 8 hrs # 227 99-  (ii) Citadel lobby Primer: SIGMACOVER 456 HS 7712 1 75 9.7 8 hrs # 227 99-  (iii) Citadel lobby Primer: SIGMACOVER 456 HS 7712 1 75 9.7 8 hrs # 227 99-  (iii) Magazine Primer: SIGMACOVER 456 HS 7712 1 75 9.7 8 hrs # 227 99-  (iii) Magazine Primer: SIGMACOVER 456 HS 7712 1 75 9.7 8 hrs # 227 99-  (iv) Cleansing Stations Primer: SIGMAGUARD CSF 650 7443 1 300 3.3 24 hrs 20 days 17 8 hrs White	
Finish: SIGMASHIELD 420	
Finish: SIGMASHIELD 420   7951   1   150   5.6   3½ hrs   14 days   212   99-	9-549-3974
Finish: SIGMASHIELD 420   7951   1   150   5.6   3½ hrs   14 days   212   99-	9-549-3974
Finish: SIGMAGUARD CSF 650 7443 1 330 3.3 24 hrs 20 days 17  O. INTERIOR WET SPACES (Touch up)  (ii) Standard Primer: SIGMACOVER 456 HS 7712 1 75 9.7 8 hrs # 227 Finish: SIGMASHIELD 420 7951 1 125 6.5 3½ hrs 14 days 212 99-BS 4800 00A01  (ii) Citadel lobby Primer: SIGMACOVER 456 HS 7712 1 75 9.7 8 hrs # 227	9-549-3974
(ii) Standard Primer: SIGMACOVER 456 HS 7712 1 75 9.7 8 hrs 4 [227] Finish: SIGMASHIELD 420 7951 1 125 6.5 3½ hrs 14 days 212 99- BS 4800 00A01  (ii) Citadel lobby Primer: SIGMACOVER 456 HS 7712 1 75 9.7 8 hrs # [227]	
(ii) Standard Primer: SIGMACOVER 456 HS 7712 1 75 9.7 8 hrs 4 [227] Finish: SIGMASHIELD 420 7951 1 125 6.5 3½ hrs 14 days 212 99- BS 4800 00A01  (ii) Citadel lobby Primer: SIGMACOVER 456 HS 7712 1 75 9.7 8 hrs # [227]	
Finish: SIGMASHIELD 420 7951 1 125 6.5 3½ hrs 14 days 212 99- BS 4800 00A01 1 75 9.7 8 hrs # 227	
(ii) <u>Citadel lobby Primer:</u> SIGMACOVER 456 HS 7712 1 75 9.7 8 hrs # 227 5 Finish: SIGMASHIELD 420 7951 1 150 5.6 3½ hrs 14 days 212 99-	9-549-3974
	9-549-3974
colour either BS 4800 00A01 or Grey BS 381C 676	
BS 4800 00A01	9-549-3974
(iv) Cleansing Stations       Primer: SIGMAGUARD CSF 650 7443       1       300       3.3       24 hrs       20 days       17         Finish: SIGMAGUARD CSF 650 7443       1       330       3.3       24 hrs       20 days       17         White       1       330       3.3       24 hrs       20 days       17	
P. INTERIOR DECKS	
(i) <u>Standard Primer:</u> SIGMACOVER 456 HS 7712 1 75 9.7 8 hrs # 227 Finish: SIGMA AQUACOVER 45 7250 1 125 6.7 6 hrs # 17 99-	9-269-1301
(ii) Cleansing Stations Primer: SIGMAGUARD CSF 650 7443 1 300 3.3 24 hrs 20 days 17 Einish: SIGMAGUARD CSF 650 7443 1 300 3.3 24 hrs 20 days 17 BS 4800 14C39	

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### **PPG PROTECTIVE & MARINE COATINGS**

Proposed Systems/Materials		Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
Q. BATTERY COMPARTMENTS		NE1						
(i) <u>Primer:</u> SIGMASHIELD 220	7922	1	125	6.4	3½ hrs	14 days	230	99-403-5015
(ii) Alternative: SIGMAGUARD CSF 650	7443	1	300	3.3	24 hrs	20 days	17	
(iii) <u>Finish:</u> SIGMASHIELD 420 BS 4800 00A01	7951	1	125	6.7	3½ hrs	14 days	212	99-723-3658
R. CABLE LOCKERS & COFFERDAMS	inglia		72	þ				
SIGMAGUARD CSF 650	7443	1	300	3.3	24 hrs	20 days	17	
S. SEWAGE & WATER BALLAST TANKS.		> 3						
SIGMA EDGEGUARD PRIMER SIGMA EDGEGUARD White	5454 5428	1	150 300	6.6 3.3	24 hrs 24 hrs	20 days 20 days	25 25	99-495-3513
T. MACHINERY SPACE BILGES	-60	172						
(i) <u>Standard:</u> SIGMA NOVAGUARD	7453	1	300	3.3	24 hrs	2 months	13	
(ii) Alternative: SIGMAGUARD CSF 650	7443	1	300	3.3	24 hrs	20 days	17	
U. AVCAT, DIESO, LUB & HYDRAULIC OIL TANKS SYS DEF STAN 80-97 (HIGH SOLIDS)	STEM .		i i i i					
SIGMAGUARD CSF 650 7443		1	300	3.3	24 hrs	20 days	17	
V. POTABLE WATER TANKS	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	10.55	4		0	7		
SIGMAGUARD CSF 585	7785	1	300	3.3	24 hrs	20 days	5	
W. AQUEOUS FILM-FORMING FOAM (AFFF) TANKS				4				
SIGMAGUARD CSF 650 7443		1	300	3.3	24 hrs	20 days	17	
X. DEMINERALISED WATER TANKS (Max Temperature	e 90°C <u>)</u>							
SIGMAGUARD CSF 650 7443		1	300	3.3	24 hrs	20 days	17	
Y. REFIT / MAINTENANCE Epoxy Holding Primer								
SIGMACOVER 280	7417	1	50	11.4	8 hrs		430	99-569-7697

#### **PPG PROTECTIVE & MARINE COATINGS**

P	roposed Systems/Materials		Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
Z. PRIMERS FOR NO	ON-FERROUS METALS & FRP		3E1						
(i) <u>Aluminium</u> :	SIGMACOVER 280	7417	1	50	11.4	8 hrs	3 months	432	99-569-7697
(ii) Stainless Steel	SIGMACOVER 280	7417	1	50	11.4	8 hrs	3 months	432	99-569-7697
(iii) Zinc Spray:	SIGMACOVER 280	7417	1	50	11.4	8 hrs	3 months	432	99-569-7697
(iv) Galvanise:	SIGMACOVER 280	7417	ST	50	11.4	8 hrs	3 months	432	99-569-7697
(v) Indicator coat f	or FRP:								

#### Notes:

- 7. The recoat intervals published above are based on the manufacturer's figures quoted for 20°C
- 8. The number of coats, stated in the above table, relate to airless spray application to achieve the stated Nominal Dry Film Thickness (NDT). Should brush application be required for touch up and repair then additional coats may be necessary to achieve the required NDFT.
- 9. # = No maximum recoat interval, see Manufacturer's Technical Data Sheet/Application Instructions for requirements.
- 10. It is important to ensure that surfaces are clean and free of contamination when overcoating materials, that have been left exposed, this is especially true for those products with an indefinite recoat interval.
- 11. The Theoretical Spreading Rate (TSR) quoted in the table above is calculated from the coatings physical constants and makes no allowance for loss and assumes a totally smooth surface. The actual spreading rate achieved Practical Spreading Rate (PSR) is dependent upon many factors and in practice the factor used may vary from as little as 1.05 up to as much as 4+. It is usual for paint manufactures to use figures of 1.3 or 1.4 for estimating purposes but they always add the caveat that actual consumption achieved may vary due to such factors as surface profile, wastage due to material left in the can, weather conditions, skill of operator etc.
- 12. ~ = Use blast primer Y. when appropriate

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Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
A. UNDERWATER PRIMER (Re-blast) ~	_						
(i) Standard: EPIGRIP C425V2	1	175	4.3	8 hrs	#	186	99 786 7949
(ii) <u>Tie Coat</u> : RESISTEX M535	1	50	8.0	2 hrs	#	502	99-453-1479
B. UNDERWATER PRIMER (T/U at Docking)			100				
(i) <u>Standard</u> : EPIGRIP C425V2	1	175	4.3	8 hrs	#	186	99 786 7949
(ii) <u>Tie Coat</u> : RESISTEX M535	1	50	8.0	2 hrs	#	502	99-453-1479
C. ANTIFOULING (Tin Free - 5yr life)	X(=3)						
100				<b>Y</b> .			
D. ANTIFOULING (FOUL RELEASE 5+ yr life)		- 0			L		
E. ANTIFOULING (Tin Free 3+ yr life)					7		
ENVOY TF 500 Red ENVOY TF 500 Brown	1	75 75	8.4 8.4	6 hrs	#	390 390	
Zivo i ii soo zisiiii			0	01110	Y/A	000	
F. BOOTTOP ANTIFOULING (Tin Free)			حددد				
ENVOY TF 500 BLACK	2	75	8.4	6 hrs	#	390	99-423-7738
G. A/W HULL & SUPERSTRUCTURE PRIMER (Re-blast) ~	1416.		3/4		17		
EPIGRIP C425V2	AJ1 P	100	7.5	4 hrs	#	186	99 786 7949
H. A/W HULL & SUPERSTRUCTURE PRIMER (Touch Up)					,		
EPIGRIP C425V2	1	100	7.5	4 hrs	#	186	99 786 7949
J AW HULL & SUPERSTRUCTURE_FINISH	<b>3118</b>	100	X .				
(i) Standard: LEIGHS A165 Light Weatherwork Grey BS 381C 676	1	35	14.6	16 hrs	#	407	99-982-2604
(ii) Alternative: EPIGRIP C750V2 Light Weatherwork Grey BS 381C 676	1	50	10.6	3 hrs	#	364	99-212-2175
(iii) Tie Coat (if required): LEIGHS M671	1	35	14.9	4 hrs	#	380	99-872-1746
(iv) <u>Sealer for RASH:</u> ENVIROGARD M260	1	35	12.5	2 hrs	#	49	99-660-9717

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
K. FLIGHT & WEATHERDECK SYSTEMS – DEF STAN 80-134							
(a) Hangar Doors	NJZ1						
Primer: EPIGRIP C425V2	1	125	6.0	5 hrs	#	186	99 786 7949
Finish: EPIGRIP C750V2	1	50	10.6	3 hrs	#	364	99-212-2175
(b) Flight Deck - Type 2 Non-skid Finish:		-	B				
Primer: EPIGRIP C425V2	1	125	6.0	4 hrs	#	186	99 786 7949
Finish: EPIDEK M339 Extra Dark Sea Grey BS 381C 640	2	200	1.8	4 hrs	#	250	99-215-4495
Type 2 Repair Kit: EPIDECK F339			7				99-383-4334
(c) Hanger Deck & Weatherdeck - Type 1 Non-skid Finish	>-		1				
Primer: EPIGRIP C425V2	1	125	6.0	4 hrs	#	186	99 786 7949
Hangar Deck: EPIDEK M377 Dark Admiralty Grey BS 381C 632	2	250	2.5	4 hrs	#	330	99-777-8689
Weatherdeck: EPIDEK M377 Extra Dark Sea Grey BS 381C 640	2	250	2.5	4 hrs	#	330	
Type 1 Repair Kit: EPIDECK F377					Yi)		99-087-4902
(d). Gloss for Deck Margins: EPIGRIP M262 Extra Dark Sea Grey BS 381C 640	1	75	W. 57		#	354	99-133-8713
L. INTERIOR DRY COMPARTMENTS (Complete Represervation)			لاندوز	3			
Primer: EPIGRIP C425V2 Finish: ENVIROGARD M770 BS 4800 00A01	1	125 25	6.0 15.6	5 hrs 3 hrs	#	186 78	99 786 7949 99-517-5228
M. INTERIOR DRY COMPARTMENTS (Touch up)	115	6.		1	1		
Primer: EPIGRIP C425V2 Finish: ENVIROGARD M770 BS 4800 00A01	1 2	125 25	6.0 15.6	5 hrs 3 hrs	#	186 78	99 786 7949 99-517-5228
	<b>1</b>			*			

Propose	ed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
N. INTERIOR WET COMPA	RTMENTS (Complete Represervation)							
(i) Standard Primer: Finish:	EPIGRIP C425V2 BIOGARD M630V2 BS 4800 00A01	1	125 75	6.0 6.8	5 hrs 24 hrs	#	186 0	99 786 7949 99-535-5105
(ii) <u>Citadel lobby - Primer:</u> <u>Finish:</u>	EPIGRIP C425V2 BIOGARD M630V2 - Colour either: BS 4800 00A01 or Grey BS 381C 676	1 1	125 75	6.0 6.8	5 hrs 24 hrs	#	186 66	99 786 7949 99-535-5105
(iii) <u>Cleansing Stations - Pr</u>	i <u>mer:</u> EPIGRIP C425V2 <u>nish:</u> EPIGRIP H766 White	1	125 40	6.0 14.0	5 hrs 5 hrs	#	186 395	99 786 7949 99-623-9946
(iv) <u>Magazine - Primer:</u> <u>Finish:</u>	EPIGRIP C425V2 BIOGARD M630V2 BS 4800 00A01	1	125 75	6.0 6.8	5 hrs 24 hrs	#	186 0	99 786 7949 99-535-5105
O. INTERIOR WET COMPA	RTMENTS (Touch-up )	- >-		R.				
(i) <u>Standard - Primer:</u> <u>Finish:</u>	EPIGRIP C425V2 BIOGARD M630V2 BS 4800 00A01	1	125 75	6.0 6.8	5 hrs 24 hrs	#	186 0	99 786 7949 99-535-5105
(ii) <u>Citadel lobby - Primer:</u> <u>Finish:</u>	EPIGRIP C425V2 BIOGARD M630V2 - Colour either: BS 4800 00A01 or Grey BS 381C 676	1	125 75	6.0 6.8	5 hrs 24 hrs	# #	186 0	99 786 7949 99-535-5105
(iii) <u>Cleansing Stations - Pr</u>	imer: EPIGRIP C425V2 nish: EPIGRIP H766 White	1 1	125 40	6.0 14.0	5 hrs 5 hrs	#	186 395	99 786 7949 99-623-9946
(iv) <u>Magazine - Primer:</u> <u>Finish:</u>	EPIGRIP C425V2 BIOGARD M630V2 BS 4800 00A01	1	125 75	6.0 6.8	5 hrs 24 hrs	#	186 0	99 786 7949 99-535-5105
P. INTERIOR DECKS					2			
±-/ =	PIGRIP C425V2 IOGARD M630V2 Green BS 4800 14C39	// 1 - 1	125 75	6.0 6.8	5 hrs 24 hrs	#	186 0	99 786 7949 99-255-5237
(ii) <u>Cleansing Stations - Prin</u> <u>Finish:</u> EPI	ner: EPIGRIP C425V2 GRIP H766 Green BS 4800 14C39	1 1	125 40	6.0 14.0	5 hrs 5 hrs	#	186 395	99 786 7949 99-501-4661
Q. BATTERY COMPARTME	ENTS			4				
(-)	EPIGRIP C425V2 BIOGARD M630V2 BS 4800 00A01		100 75	7.5 6.8	4hrs 24 hrs	#	197 0	99 786 7949 99-535-5105
R. CABLE LOCKERS & CO	FFERDAMS	~						
	EPIGRIP L524 WHITE	2	125	5.1	12 hrs	#	296	99-564-2934
S. SEWAGE & WATER BAL	LAST TANKS.							
Water Ballast Tanks:	EPIGRIP L524	2	125	5.1	12 hrs	#	296	99-564-2934
Sewage Tanks - Primer: Finish:	EPIGRIP H735 EPIGRIP H736	1 1	125 125	5.4 5.2	6 hrs 6 hrs	3 days 3 days	270 283	99-341-1160 99-850-0225

### **LEIGH'S PAINT'S**

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
T. MACHINERY SPACE BILGES							
(i) Standard: EPIGRIP L524 WHITE	2	125	5.1	12 hrs	#	296	99-564-2934
(ii) Alternative: EPIGRIP L524 WHITE BIOGARD M630V2 BS 4800 00A01	2 1	125 75	5.1 6.8	7 days 12 hrs	# #	296 0	99-564-2934 99-535-5105
U. AVCAT, DIESO, LUB & HYDRAULIC OIL TANKS SYSTEM  DEF STAN 80-97 (HIGH SOLIDS)			35				
EPIGRIP H735 EPIGRIP H736	1	125 125	5.4 5.2	6 hrs 6 hrs	3 days 3 days	270 283	99-341-1160 99-850-0225
V. POTABLE WATER TANKS HYDROGARD H20V2	1	400	2.5	12 hrs	36 hrs	0	
W. AQUEOUS FILM-FORMING FOAM (AFFF) TANKS	(6)	B			X		
EPIGRIP M251 EPIGRIP M253	1 1	125 125	4.4 4.4	16 hrs 16 hrs	7 days 7 days	390 390	99-301-1924 99-623-8463
X. DEMINERALISED WATER TANKS (Max Temperature 90°C)							
EPIGRIP M251 EPIGRIP M253	1 1	125 125	4.4 4.4	16 hrs 16 hrs	7 days 7 days	390 390	99-301-1924 99-623-8463
Y. EPOXY HOLDING PRIMER							
METAGARD L574	1	25	11.6	3 hrs	#	594	99-895-9894
Alternative & maintenance: EPIGRIP M111	1	60	9.0	4 hrs	#	383	99-884-5957
Z. PRIMERS FOR NON-FERROUS METALS			4				
(i) Aluminium: EPIGRIP H795	1	35	109	4 hrs	#	575	99-225-0195
(i) Aluminium: EPIGRIP H795  (ii) Stainless Steel: EPIGRIP H795	1	35	109	4 hrs	#	575	99-225-0195
(iii) Zinc Spray: METAGARD L574	1	25	11.6	3 hrs	#	594	99-895-9894
(iv) <u>Galvanise</u> : EPIGRIP H795	1	35	109	4 hrs	#	575	99-225-0195
(v) Indicator Coat for FRP: EPIGRIP C425V2 Off white	1	100	7.5	4 hrs	#	186	99-133-8714

### Notes:

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- 13. The recoat intervals published above are based on the manufacturer's figures quoted for 23°C
- 14. The number of coats stated in the above table, relate to airless spray application to achieve the stated Nominal Dry Film Thickness (NDFT). Should brush application be required for touch up and repair then additional coats may be necessary to achieve the required NDFT.
- 15.# = Indefinite but see Manufacturer's Technical Data Sheet/Application Instructions for requirements.
- 16. It is important to ensure that surfaces are clean and free of contamination when overcoating materials, that have been left exposed, this is especially true for those products with an indefinite recoat interval.
- 17. The Theoretical Spreading Rate (TSR) quoted in the table above is calculated from the coatings physical constants and makes no allowance for loss and assumes a totally smooth surface. The actual spreading rate achieved Practical Spreading Rate (PSR) is dependent upon many factors and in practice the factor used may vary from as little as 1.05 up to as much as 4+. It is usual for paint manufactures to use figures of 1.3 or 1.4 for estimating purposes but they always add the caveat that actual consumption achieved may vary due to such factors as surface profile, wastage due to material left in the can, weather conditions, skill of operator etc.
- 18. ~ = Use blast primer Y. when appropriate.

### INTENTIONALLY BLANK



### 1. WHOLE SHIP MATERIALS

Material	Supplier	Pack size	NSN
REMOVALL 510	Cirrus Systems Ltd	5 US gal	0810-99-871-5945
ALP 500	Chugoku Paints (UK) Ltd	5 litres	8010-99-967-8636
AQUALIFE GLOSS FINISH Ash Grey BS4800 00A01	Chugoku Paints (UK) Ltd	5 litres	8010-99-757-9334
AQUALIFE GLOSS FINISH BS381C 676 Light Weatherwork Grey	Chugoku Paints (UK) Ltd	5 litres	8010-99-375-9367
AQUALIFE GLOSS FINISH Green BS4800 14C39	Chugoku Paints (UK) Ltd	5 litres	8010-99-755-6242
AQUALIFE GLOSS FINISH White	Chugoku Paints (UK) Ltd	5 litres	8010-99-371-8400
AQUALIFE WSE PRIMER Grey	Chugoku Paints (UK) Ltd	5 litres	8010-99-398-1182
CAMACRYL FINISH MAC Ash Grey BS4800 00A01	Chugoku Paints (UK) Ltd	5 litres	8010-99-676-4126
CAMACRYL FINISH MAC Azure Blue BS381C 104	Chugoku Paints (UK) Ltd	5 litres	8010-99-366-5444
CAMACRYL FINISH MAC Canary BS381C 309	Chugoku Paints (UK) Ltd	5 litres	8010-99-446-0554
CAMACRYL FINISH MAC Dark Blue BS4800 18C39	Chugoku Paints (UK) Ltd	5 litres	8010-99-862-0034
CAMACRYL FINISH MAC Mid Brunswick Green BS381C 226	Chugoku Paints (UK) Ltd	5 litres	8010-99-794-2129
CAMACRYL FINISH MAC Wedgwood Blue BS4800 18D43	Chugoku Paints (UK) Ltd	5 litres	8010-99-665-3660
CAMACRYL FINISH MAC White	Chugoku Paints (UK) Ltd	5 litres	8010-99-380-7010
CAMSIL WB Black	Chugoku Paints (UK) Ltd	5 litres	8010-99-397-4388
CAMSIL WB GREY 541W 0224 Lt Weatherwork Grey BS381C 676	Chugoku Paints (UK) Ltd	5 litres	8010-99-327-9058
CAMSIL WB Lt Brunswick Green BS381C 225	Chugoku Paints (UK) Ltd	5 litres	8010-99-250-1029
CAMSIL WB Signal Red BS381C 537	Chugoku Paints (UK) Ltd	5 litres	8010-99-225-7163
GALVANITE 200 White	Chugoku Paints (UK) Ltd	5 litres	8010-99-995-4247
GALVANITE 200 White	Chugoku Paints (UK) Ltd	20 litres	8010-99-290-5829
NZ PRIMER S Red Oxide	Chugoku Paints (UK) Ltd	20 litres	8010-99-595-6056
UMEGUARD HS Dark Sea Grey BS381C 640	Chugoku Paints (UK) Ltd	20 litres	
UMEGUARD HS Grey	Chugoku Paints (UK) Ltd	5 litres	8010-99-126-9478
UMEGUARD HS SILVER	Chugoku Paints (UK) Ltd	5 litres	8010-99-763-0243
UMEGUARD HS SILVER	Chugoku Paints (UK) Ltd	20 litres	8010-99-264-0145
UMEGUARD HS White	Chugoku Paints (UK) Ltd	5 litres	8010-99-564-2409
BLAKES GELPROTECT SFE200 Cream	Hempel Paints Limited	2½litres	8010-99-517-4318
HEMPADUR 1555 0 Off White 1163	Hempel Paints Limited	5 litres	8010-99-870-0653
HEMPADUR 1555 0 Off White 1163	Hempel Paints Limited	20 litres	8010-99-700-4191
HEMPADUR 1557 Light Grey 12430	Hempel Paints Limited	5 litres	8010-99-943-1152

Material	Supplier	Pack size	NSN
HEMPADUR 1557 Light Grey 12430	Hempel Paints Limited	20 litres	8010-99-170-5097
HEMPADUR 45143 White10000	Hempel Paints Limited	5 litres	8010-99-602-7280
HEMPADUR 45150 Red 50630	Hempel Paints Limited	5 litres	8010-99-535-5832
HEMPADUR 45880 White	Hempel Paints Limited	5 litres	8010-99-264-0387
HEMPADUR 45880 MIO 12430	Hempel Paints Limited	5 litres	8010-99-803-7233
HEMPADUR 45880 MIO 12430	Hempel Paints Limited	20 litres	8010-99-479-5449
HEMPADUR LTC 45143 GREEN BS4800 14C39	Hempel Paints Limited	5 litres	8010-99-471-1920
HEMPEL'S NON SKID (NO AGGREGATE) 457GA BS381C 640 (Extra dark sea grey)	Hempel Paints Limited	5 litres	8010-99-879-5150
HEMPEL'S NON SKID (NO AGGREGATE) 457GA BS381C 640 (Extra dark sea grey)	Hempel Paints Limited	20 litres	8010-99-488-6439
HEMPEL'S NON SKID 45340 BS381C 640 (Extra dark sea grey) Type 2	Hempel Paints Limited	20 litres	8010-99-213-1121
HEMPELS NON SKID 457GB BLACK	Hempel Paints Limited	20 Kg	8010-99-507-2851
HEMPELS DECK MARKING 453GB Black	Hempel Paints Limited	20 litres	8010-99-480-7979
HEMPELS ANTIFOULING OLYMPIC 8695 Black	Hempel Paints Limited	20 litres	8010-99-147-9828
HEMPELS UNDERCOAT 424GB Grey	Hempel Paints Limited	2½ litres	8010-99-244-6752
HEMPELS SILICONE ALKYD FINISH 536GB Light Weatherwork Grey BS381C 676	Hempel Paints Limited	2½ litres	8010-99-772-5448
HEMPELS DECK MARKING 453GB White	Hempel Paints Limited	5 litres	8010-99-323-1118
HEMPELS DECK MARKING 453GB Green BS381C 225	Hempel Paints Limited	5 litres	8010-99-986-6762
HEMPELS DECK MARKING 453GB Red BS381C 537	Hempel Paints Limited	5 litres	8010-99-724-9085
HEMPELS DECK MARKING 453GB Black	Hempel Paints Limited	5 litres	8010-99-351-4222
HEMPELS DECK REPAIR KIT 941GB Type 2	Hempel Paints Limited	Pack	8010-99-340-2100
HEMPELS DECK REPAIR KIT 942GB Type 1	Hempel Paints Limited	Pack	8010-99-471-2960
HEMPELS NON SKID 45340 Grey BS3813 632 Type 1	Hempel Paints Limited	20 litres	8010-99-670-9581
HEMPELS WATER BASED EPOXY 48580 Black	Hempel Paints Limited	5 Litres	8010-99-864-5046
HEMPELS WATER BASED EPOXY 48580 BS4800 00A01 (Ash Grey)	Hempel Paints Limited	5 litres	8010-99-988-2715
HEMPELS WATER BASED EPOXY 48580 BS4800 14C39 (Green)	Hempel Paints Limited	5 litres	8010-99-279-8221
HEMPELS WATER BASED EPOXY 48580 BS381C 676 (Light Weatherwork Grey)	Hempel Paints Limited	5 litres	8010-99-976-9118
HEMUCRYL ENAMEL 5810 Azure Blue BS381C	Hempel Paints Limited	5 litres	8010-99-382-4025
HEMUCRYL ENAMEL 5810 Black	Hempel Paints Limited	5 litres	8010-99-175-1334
HEMUCRYL ENAMEL 5810 Canary BS381C 309	Hempel Paints Limited	5 litres	8010-99-858-1263
HEMUCRYL ENAMEL 5810 Dark Blue BS4800 18C39	Hempel Paints Limited	5 litres	8010-99-290-5925
HEMUCRYL ENAMEL 5810 Lt Brunswick Green BS381C 225	Hempel Paints Limited	5 litres	8010-99-831-8959

Material	Supplier	Pack size	NSN
HEMUCRYL ENAMEL 5810 Mid Brunswick Green	Hempel Paints Limited	5 litres	8010-99-162-2531
BS381C 226 HEMUCRYL ENAMEL 5810 Signal Red BS381C	Hempel Paints Limited	5 litres	8010-99-250-8046
537 HEMUCRYL ENAMEL 5810 Wedgwood Blue	Hempel Paints Limited	5 litres	8010-99-317-6235
BS4800 18D43 HEMUCRYL ENAMEL 5810 Ash Grey BS4800	Hempel Paints Limited	5 litres	8010-99-660-9288
00A01 HEMUCRYL ENAMEL 5810 Golden Brown BS381C	Hempel Paints Limited	5 litres	8010-99-562-6381
414 HEMUCRYL ENAMEL 5810 White	Hempel Paints Limited	5 litres	8010-99-299-0228
HEMUCRYL TI-COAT 1820 0 Red 50710	Hempel Paints Limited	5 litres	8010-99-199-2908
HEMUDUR 1850 Grey 12170	Hempel Paints Limited	20 litres	8010-99-867-8090
INTERCRYL 506 GREY WPA300	International Coatings Ltd	5 litres	8010-99-147-1269
INTERCRYL 507 Grey BS 4800 00A01	International Coatings Ltd	5 litres	8010-99-365-4243
INTERCRYL 700 Grey BS 4800 00A01	International Coatings Ltd	5 litres	8010-99-7998832
INTERCRYL 700 Azure Blue BS381C 104	International Coatings Ltd	5 litres	8010-99-551-3792
INTERCRYL 700 Golden Brown BS381C 414	International Coatings Ltd	5 litres	8010-99-314-8294
INTERCRYL 700 Mariner Blue BS4800 18C39	International Coatings Ltd	5 litres	8010-99-551-3791
INTERCRYL 700 Mid Brunswick Green BS381C 226	International Coatings Ltd	5 litres	8010-99-812-5614
INTERCRYL 700 Wedgewood Blue BS4800 18D43	International Coatings Ltd	5 litres	8010-99-248-4598
INTERCRYL 700 White QYZ028	International Coatings Ltd	5 litres	8010-99-979-7888
INTERCRYL 700 Yellow RAL 1018	International Coatings Ltd	5 litres	8010-99-774-1224
INTERFINE 629 HS Black	International Coatings Ltd	5 litres	8010-99-375-3200
INTERFINE 629 HS Signal Red BS 381C 537	International Coatings Ltd	5 litres	8010-99-535-9034
INTERFINE 629 HS Lt Brunswick Green BS 381C 225	International Coatings Ltd	5 litres	8010-99-957-7410
INTERFINE 629 Light Weatherwork Grey BS381C 676	International Coatings Ltd	5 litres	8010-99-664-5391
INTERFINE 979 GREEN	International Coatings Ltd	5 litres	8010-99-729-7357
INTERFINE 979 WHITE	International Coatings Ltd	5 litres	8010-99-168-7337
INTERGARD 263 Tie Coat Light Grey	International Coatings Ltd	20 litres	8010-99-133-3854
INTERGARD 269 PROTECTIVE PRIMER	International Coatings Ltd	20 litres	8010-99-983-0743
INTERGARD1735 WB Dark Sea Grey BS381C 640	International Coatings Ltd	5 litres	8010-99-702-0607
INTERGARD 1735 WB Green BS4800 14C39	International Coatings Ltd	5 litres	8010-99-483-1994
INTERGARD 1735 WB Ash Grey BS4800 00A01	International Coatings Ltd	5 litres	8010-99-255-0527
INTERGARD 740 Dark Sea Grey BS381C 640	International Coatings Ltd	5 litres	8010-99-182-2627
INTERGARD 740 Black	International Coatings Ltd	5 litres	8010-99-488-7443

International Coatings Ltd   5 litres   8010-99-377-5457     INTERGARD 740 White   International Coatings Ltd   5 litres   8010-99-377-5467     INTERGARD 740 Black   International Coatings Ltd   20 litres   8010-99-295-3824     INTERGARD 840 Series Buff   International Coatings Ltd   20 litres   8010-99-299-8023     INTERGARD 840 Series Buff   International Coatings Ltd   20 litres   8010-99-299-8023     INTERGARD 840 White   International Coatings Ltd   5 litres   8010-99-279-8277     INTERGARD 5000 Ash Grey BS 4800 00A01   International Coatings Ltd   5 litres   8010-99-000-5256     INTERSIAC 846 Light Weatherwork Grey BS381C   International Coatings Ltd   2½ litres   8010-99-000-5256     INTERSHEELA SAGUACOAT Ash Grey BS4800   International Coatings Ltd   5 litres   8010-99-365-4243     INTERSHIELD 851 Black   International Coatings Ltd   10 litres   8010-99-371-6753     INTERSHIELD 851 Extra Dark Sea Grey BS381C   International Coatings Ltd   5 litres   8010-99-371-6753     INTERSHIELD 852 White   International Coatings Ltd   5 litres   8010-99-274-4430     INTERSHIELD 852 White   International Coatings Ltd   5 litres   8010-99-274-4430     INTERSHIELD 852 Green   International Coatings Ltd   5 litres   8010-99-274-4430     INTERSHIELD 852 Dark Admiralty Grey BS 381C   International Coatings Ltd   5 litres   8010-99-871-6360     INTERSHIELD 852 Extra Dark Sea Grey BS 381C   International Coatings Ltd   5 litres   8010-99-874-3193     INTERSPEED 340 Black   International Coatings Ltd   5 litres   8010-99-874-3193     INTERSPEED 642 Black   International Coatings Ltd   20 litres   8010-99-868-3624     INTERSPEED 642 Black   International Coatings Ltd   20 litres   8010-99-968-3624     INTERSPEED 642 Black   International Coatings Ltd   20 litres   8010-99-968-3624     INTERSPEED 642 Black   International Coatings Ltd   20 litres   8010-99-968-3624     INTERSPEED 642 Black   International Coatings Ltd   20 litres   8010-99-968-3624     INTERSPEED 642 Black   International Coatings Ltd   20 litres   8010-99-9
INTERGARD 740 Black International Coatings Ltd 20 litres 8010-99-285-3824 INTERGARD 840 Series Buff International Coatings Ltd 20 litres 8010-99-90-6023 INTERGARD 840 White International Coatings Ltd 5 litres 8010-99-90-6023 INTERGARD 5000 Ash Grey BS 4800 00A01 International Coatings Ltd 5 litres 8010-99-279-8277 INTERGARD 5000 Ash Grey BS 4800 00A01 International Coatings Ltd 5 litres 8010-99-000-5256 INTERLAC 846 Light Weatherwork Grey BS381C International Coatings Ltd 2½ litres 8010-99-000-5256 INTERSHEEN AQUACOAT Ash Grey BS4800 International Coatings Ltd 5 litres 8010-99-365-4243 00A01 INTERSHEED 851 Black International Coatings Ltd 10 litres 8010-99-371-6753 INTERSHIELD 851 Extra Dark Sea Grey BS381C International Coatings Ltd 20 litres 8010-99-391-0953 640 International Coatings Ltd 5 litres 8010-99-391-0953 640 International Coatings Ltd 5 litres 8010-99-274-4430 INTERSHIELD 852 White International Coatings Ltd 5 litres 8010-99-274-4430 INTERSHIELD 852 Green International Coatings Ltd 5 litres 8010-99-871-6360 INTERSHIELD 852 Care International Coatings Ltd 5 litres 8010-99-871-6360 INTERSHIELD 852 Extra Dark Sea Grey BS 381C International Coatings Ltd 5 litres 8010-99-871-6360 INTERSHIELD 852 Extra Dark Sea Grey BS 381C International Coatings Ltd 5 litres 8010-99-874-3193 INTERSPEED 642 Black International Coatings Ltd 5 litres 8010-99-874-3193 INTERSPEED 642 Black International Coatings Ltd 20 litres 8010-99-874-3193 INTERSPEED 642 Black International Coatings Ltd 20 litres 8010-99-972-1990 ANTI-FOULING SEAGUARDIAN MD Jotun Paints (Europe) Limited 20 litres 8010-99-877-2976 JOTA ARMOUR AS REPAIR KIT Extra Dark Sea Grey BS381C 640 JOTA ARMOUR AS Extra Dark Sea Grey BS381C 640 JOTA ARMOUR AS Extra Dark Sea Grey BS381C 640 Jotun Paints (Europe) Limited 20 litres 8010-99-226-7300
INTERGARD 840 Series Buff International Coatings Ltd 20 litres 8010-99-09-6023  INTERGARD 840 White International Coatings Ltd 5 litres 8010-99-279-8277  INTERGARD 5000 Ash Grey BS 4800 00A01 International Coatings Ltd 5 litres 8010-99-000-5256  INTERLAC 846 Light Weatherwork Grey BS381C International Coatings Ltd 2½ litres 8010-99-700-8410 676  INTERSHEEN AQUACOAT Ash Grey BS4800 International Coatings Ltd 5 litres 8010-99-371-6753  INTERSHIELD 851 Black International Coatings Ltd 10 litres 8010-99-371-6753  INTERSHIELD 851 Extra Dark Sea Grey BS381C International Coatings Ltd 5 litres 8010-99-391-0953 640  INTERSHIELD 852 Black International Coatings Ltd 5 litres 8010-99-250-1864  INTERSHIELD 852 White International Coatings Ltd 5 litres 8010-99-274-4430  INTERSHIELD 852 Red International Coatings Ltd 5 litres 8010-99-871-6360  INTERSHIELD 852 Green International Coatings Ltd 5 litres 8010-99-871-6360  INTERSHIELD 852 Dark Admiralty Grey BS 381C 632  INTERSHIELD 852 Extra Dark Sea Grey BS 381C International Coatings Ltd 5 litres 8010-99-871-6360  INTERSHIELD 852 Extra Dark Sea Grey BS 381C International Coatings Ltd 5 litres 8010-99-874-8996  G32  INTERSPEED 340 Black International Coatings Ltd 5 litres 8010-99-874-3193  INTERSPEED 642 Black International Coatings Ltd 20 litres 8010-99-874-3193  INTERSPEED 642 Black International Coatings Ltd 20 litres 8010-99-792-1990  ANTI-FOULING SEAGUARDIAN MD Jotun Paints (Europe) Limited 20 litres 8010-99-817-2976  JOTA ARMOUR AS REPAIR KIT Extra Dark Sea Grey BS381C 640  JOTA ARMOUR AS REPAIR KIT Extra Dark Sea Grey BS381C Jotun Paints (Europe) Limited 20 litres 8010-99-226-7300
INTERGARD 840 White International Coatings Ltd 5 litres 8010-99-279-8277  INTERGARD 5000 Ash Grey BS 4800 00A01 International Coatings Ltd 5 litres 8010-99-000-5256  INTERLAC 846 Light Weatherwork Grey BS381C International Coatings Ltd 676  INTERSHEEN AQUACOAT Ash Grey BS4800 International Coatings Ltd 5 litres 8010-99-365-4243 00A01  INTERSHEED 851 Black International Coatings Ltd 10 litres 8010-99-371-6753  INTERSHIELD 851 Extra Dark Sea Grey BS381C International Coatings Ltd 20 litres 8010-99-391-0953 640  INTERSHIELD 852 Black International Coatings Ltd 5 litres 8010-99-250-1864  INTERSHIELD 852 White International Coatings Ltd 5 litres 8010-99-274-4430  INTERSHIELD 852 Red International Coatings Ltd 5 litres 8010-99-274-4430  INTERSHIELD 852 Green International Coatings Ltd 5 litres 8010-99-871-6360  INTERSHIELD 852 Dark Admiralty Grey BS 381C 632  INTERSHIELD 852 Extra Dark Sea Grey BS 381C International Coatings Ltd 5 litres 8010-99-149-8996 632  INTERSHIELD 852 Extra Dark Sea Grey BS 381C International Coatings Ltd 5 litres 8010-99-149-8996 640  INTERSPEED 642 Black International Coatings Ltd 20 litres 8010-99-149-8996 640  INTERSPEED 642 Black International Coatings Ltd 20 litres 8010-99-874-3193  INTERSPEED 642 Black International Coatings Ltd 20 litres 8010-99-984-3193  INTERSPEED 642 Black International Coatings Ltd 20 litres 8010-99-988-3624  EPOXY HOLDING PRIMER Red Jotun Paints (Europe) Limited 20 litres 8010-99-988-3624  EPOXY HOLDING PRIMER Red Jotun Paints (Europe) Limited 20 litres 8010-99-817-2976  JOTA ARMOUR AS REPAIR KIT Extra Dark Sea Grey BS381C 640  JOTA ARMOUR AS Extra Dark Sea Grey BS381C 640  JOTA ARMOUR AS Extra Dark Sea Grey BS381C 640  JOTA ARMOUR AS Extra Dark Sea Grey BS381C 640  JOTA ARMOUR AS Extra Dark Sea Grey BS381C 640  JOTA ARMOUR AS Extra Dark Sea Grey BS381C 640  JOTA ARMOUR AS Extra Dark Sea Grey BS381C 640
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International Coatings Ltd 5 litres 8010-99-365-4243 000A01
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INTERSHIELD 852 Black  International Coatings Ltd  5 litres  8010-99-250-1864  INTERSHIELD 852 White  International Coatings Ltd  5 litres  8010-99-274-4430  INTERSHIELD 852 Red  International Coatings Ltd  5 litres  8010-99-666-9269  INTERSHIELD 852 Green  International Coatings Ltd  5 litres  8010-99-871-6360  INTERSHIELD 852 Dark Admiralty Grey BS 381C  632  INTERSHIELD 852 Extra Dark Sea Grey BS 381C  640  INTERSHIELD 852 Extra Dark Sea Grey BS 381C  International Coatings Ltd  5 litres  8010-99-871-6360  INTERSHED 852 Extra Dark Sea Grey BS 381C  International Coatings Ltd  5 litres  8010-99-871-6360  International Coatings Ltd  International Coatings Ltd  International Coatings Ltd  Inte
INTERSHIELD 852 Black  International Coatings Ltd  5 litres  8010-99-250-1864  INTERSHIELD 852 White  International Coatings Ltd  5 litres  8010-99-274-4430  INTERSHIELD 852 Red  International Coatings Ltd  5 litres  8010-99-666-9269  INTERSHIELD 852 Green  International Coatings Ltd  5 litres  8010-99-871-6360  INTERSHIELD 852 Dark Admiralty Grey BS 381C  632  INTERSHIELD 852 Extra Dark Sea Grey BS 381C  640  INTERSPEED 340 Black  International Coatings Ltd  5 litres  8010-99-149-8996  640  International Coatings Ltd  5 litres  8010-99-149-8996  640  International Coatings Ltd  5 litres  8010-99-149-8996  640  International Coatings Ltd  20 litres  8010-99-874-3193  INTERSPEED 642 Black  International Coatings Ltd  20 litres  8010-99-792-1990  ANTI-FOULING SEAGUARDIAN MD  Jotun Paints (Europe) Limited  20 litres  8010-99-817-2976  JOTA ARMOUR AS REPAIR KIT Extra Dark Sea Grey BS381C 640  JOTA-ARMOUR AS Extra Dark Sea Grey BS381C  Jotun Paints (Europe) Limited  20 litres  8010-99-226-7300
INTERSHIELD 852 Red International Coatings Ltd 5 litres 8010-99-666-9269  INTERSHIELD 852 Green International Coatings Ltd 5 litres 8010-99-871-6360  INTERSHIELD 852 Dark Admiralty Grey BS 381C International Coatings Ltd 5 litres 8010-99-149-8996 632  INTERSHIELD 852 Extra Dark Sea Grey BS 381C International Coatings Ltd 5 litres 8010-99-149-8996 640  INTERSPEED 340 Black International Coatings Ltd 20 litres 8010-99-874-3193  INTERSPEED 642 Black International Coatings Ltd 20 litres 8010-99-792-1990  ANTI-FOULING SEAGUARDIAN MD Jotun Paints (Europe) Limited 20 litres 8010-99-968-3624  EPOXY HOLDING PRIMER Red Jotun Paints (Europe) Limited 20 litres 8010-99-817-2976  JOTA ARMOUR AS REPAIR KIT Extra Dark Sea Grey BS381C G40  JOTA-ARMOUR AS Extra Dark Sea Grey BS381C Jotun Paints (Europe) Limited 20 litres 8010-99-226-7300
INTERSHIELD 852 Green International Coatings Ltd 5 litres 8010-99-871-6360  INTERSHIELD 852 Dark Admiralty Grey BS 381C 632  INTERSHIELD 852 Extra Dark Sea Grey BS 381C International Coatings Ltd 5 litres 8010-99-149-8996 640  INTERSPEED 340 Black International Coatings Ltd 20 litres 8010-99-874-3193  INTERSPEED 642 Black International Coatings Ltd 20 litres 8010-99-792-1990  ANTI-FOULING SEAGUARDIAN MD Jotun Paints (Europe) Limited 20 litres 8010-99-968-3624  EPOXY HOLDING PRIMER Red Jotun Paints (Europe) Limited 20 litres 8010-99-817-2976  JOTA ARMOUR AS REPAIR KIT Extra Dark Sea Grey BS381C 640  JOTA-ARMOUR AS Extra Dark Sea Grey BS381C Jotun Paints (Europe) Limited 20 litres 8010-99-226-7300 8010-99-226-7300
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INTERSHIELD 852 Extra Dark Sea Grey BS 381C 640 INTERSPEED 340 Black International Coatings Ltd 20 litres 8010-99-874-3193 INTERSPEED 642 Black International Coatings Ltd 20 litres 8010-99-874-3193 ANTI-FOULING SEAGUARDIAN MD Jotun Paints (Europe) Limited 20 litres 8010-99-968-3624 EPOXY HOLDING PRIMER Red Jotun Paints (Europe) Limited 20 litres 8010-99-817-2976  JOTA ARMOUR AS REPAIR KIT Extra Dark Sea Grey BS381C 640 JOTA-ARMOUR AS Extra Dark Sea Grey BS381C Jotun Paints (Europe) Limited 20 litres 8010-99-226-7300 640
INTERSPEED 340 Black International Coatings Ltd 20 litres 8010-99-874-3193  INTERSPEED 642 Black International Coatings Ltd 20 litres 8010-99-792-1990  ANTI-FOULING SEAGUARDIAN MD Jotun Paints (Europe) Limited 20 litres 8010-99-968-3624  EPOXY HOLDING PRIMER Red Jotun Paints (Europe) Limited 20 litres 8010-99-817-2976  JOTA ARMOUR AS REPAIR KIT Extra Dark Sea Grey BS381C 640  JOTA-ARMOUR AS Extra Dark Sea Grey BS381C Jotun Paints (Europe) Limited 20 litres 8010-99-226-7300 640
ANTI-FOULING SEAGUARDIAN MD  Jotun Paints (Europe) Limited  20 litres  8010-99-968-3624  EPOXY HOLDING PRIMER Red  Jotun Paints (Europe) Limited  20 litres  8010-99-817-2976  JOTA ARMOUR AS REPAIR KIT Extra Dark Sea Grey BS381C 640  JOTA-ARMOUR AS Extra Dark Sea Grey BS381C  Jotun Paints (Europe) Limited  20 litres  8010-99-226-7300  8010-99-226-7300
EPOXY HOLDING PRIMER Red  Jotun Paints (Europe) Limited  20 litres  8010-99-817-2976  JOTA ARMOUR AS REPAIR KIT Extra Dark Sea Grey BS381C 640  JOTA-ARMOUR AS Extra Dark Sea Grey BS381C  Jotun Paints (Europe) Limited  20 litres  8010-99-226-7300  8010-99-226-7300
JOTA ARMOUR AS REPAIR KIT Extra Dark Sea Grey BS381C 640  JOTA-ARMOUR AS Extra Dark Sea Grey BS381C  Jotun Paints (Europe) Limited  20 litres  8010-99-226-7300  640
Grey BS381C 640 JOTA-ARMOUR AS Extra Dark Sea Grey BS381C Jotun Paints (Europe) Limited 20 litres 8010-99-226-7300 640
JOTA-ARMOUR AS Extra Dark Sea Grey BS381C
JOTAPROOF TOPCOAT Light Weatherwork Grey Jotun Paints (Europe) Limited 20 litres 8010-99-310-9229 BS381C 676
JOTAPROOF TOPCOAT Light Weatherwork Grey Jotun Paints (Europe) Limited 5 litres 8010-99-583-1344 BS381C 676
POLYMASTIC 100 Grey  Jotun Paints (Europe) Limited 5 litres 8010-99-362-1638
POLYMASTIC 2000 Red Jotun Paints (Europe) Limited 5 litres 8010-99-395-8448
POLYMASTIC 2000 Ash Grey BS4800 00A01 Jotun Paints (Europe) Limited 5 litres 8010-99-665-9772
POLYMASTIC 2000 Lt Weatherwork Grey BS381C
676 POLYMASTIC 2000 Green BS4800 14C39 Jotun Paints (Europe) Limited 5 litres 8010-99-514-9385
PRE Jotun Paints (Europe) Limited 5 litres
PRIMASTIC UNIVERSAL MD Jotun Paints (Europe) Limited 5 litres 8010-99-509-7172

Material	Supplier	Pack size	NSN
VINYGUARD SILVERGREY	Jotun Paints (Europe) Limited	5 litres	8010-99-212-5888
WATERFINE PRIMER Lt Grey	Jotun Paints (Europe) Limited	5 litres	8010-99-462-9708
WATERFINE TOPCOAT Azure Blue BS381C 104	Jotun Paints (Europe) Limited	5 litres	8010-99-186-9127
WATERFINE TOPCOAT Black	Jotun Paints (Europe) Limited	5 litres	8010-99-877-1641
WATERFINE TOPCOAT Dark Blue BS4800 18C39	Jotun Paints (Europe) Limited	5 litres	8010-99-347-9130
WATERFINE TOPCOAT Lt Brunswick Green	Jotun Paints (Europe) Limited	5 litres	8010-99-131-6457
BS381C 225 WATERFINE TOPCOAT Lt Weatherwork Grey	Jotun Paints (Europe) Limited	5 litres	8010-99-989-6214
BS381C 676 WATERFINE TOPCOAT Mid Brunswick Green	Jotun Paints (Europe) Limited	5 litres	8010-99-873-4271
BS381C 226 WATERFINE TOPCOAT Signal Red BS381C 537	Jotun Paints (Europe) Limited	5 litres	8010-99-921-4654
WATERFINE TOPCOAT Wedgwood Blue BS4800	Jotun Paints (Europe) Limited	5 litres	8010-99-212-5714
18D43 WATERFINE TOPCOAT White	Jotun Paints (Europe) Limited	5 litres	8010-99-372-9140
WATERFINE TOPCOAT Golden Brown	Jotun Paints (Europe) Limited	5 litres	8010-99-997-4563
BIOGARD M630V2 Light Weatherwork Grey	Leighs Paints	5 litres	8010-99-131-6908
BS381C 676 BIOGARD M630V2 Green BS4800 14C39	Leighs Paints	5 litres	8010-99-255-5237
BIOGARD M630V2 Ash Grey BS4800 00A01	Leighs Paints	5 litres	8010-99-535-5105
BIOGARD M630V2 Black	Leighs Paints	5 litres	8010-99-739-8402
BIOGARD M630V2 White	Leighs Paints	5 litres	8010-99-313-4440
ENVIROGARD M770 Ash Grey BS4800 00A01	Leighs Paints	5 litres	8010-99-517-5228
ENVIROGARD M770 Black	Leighs Paints	5 litres	8010-99-768-1426
ENVIROGARD M770 Azure Blue BS381C 104	Leighs Paints	5 litres	8010-99-878-8150
ENVIROGARD M770 Canary BS381C 309	Leighs Paints	5 litres	8010-99-726-4136
ENVIROGARD M770 Dark Blue BS4800 18C39	Leighs Paints	5 litres	8010-99-723-3650
ENVIROGARD M770 Lt Brunswick Green BS381C	Leighs Paints	5 litres	8010-99-313-9445
225 ENVIROGARD M770 Mid Brunswick Green BS381C 226	Leighs Paints	5 litres	8010-99-862-5170
ENVIROGARD M770 Signal Red BS381C 537	Leighs Paints	5 litres	8010-99-225-7155
ENVIROGARD M770 Light Weatherwork Grey BS381C 676	Leighs Paints	5 litres	8010-99-833-4765
ENVIROGARD M770 Wedgwood Blue BS4800 18D43	Leighs Paints	5 litres	8010-99-723-3651
ENVIROGARD M770 White	Leighs Paints	5 litres	8010-99-231-3852
ENVOY TF500 Black	Leighs Paints	15 litres	8010-99-423-7738
EPIDEK M339NA	Leighs Paints	5 litres	8010-99-845-5203
EPIGRIP C425V2 Light Grey	Leighs Paints	5 litres	8010-99-786-7949
EPIGRIP C425 Light Grey	Leighs Paints	20 litres	8010-99-126-6377
EPIGRIP C425V2 Off White	Leighs Paints	20 litres	8010-99-133-8714

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Material	Supplier	Pack size	NSN
EPIGRIP H766 Green BS4800 14C39	Leighs Paints	5 litres	8010-99-501-4661
EPIGRIP H766 White	Leighs Paints	5 litres	8010-99-623-9946
EPIGRIP L524 Aluminium	Leighs Paints	5 litres	8010-99-216-0021
EPIGRIP L524 White	Leighs Paints	5 litres	8010-99-564-2934
EPIGRIP M111 Red	Leighs Paints	5 litres	8010-99-884-597
EPIGRIP M216 Black	Leighs Paints	5 litres	8010-99-799-8831
EPIGRIP M902 Aluminium	Leighs Paints	2.5 litres	8010-99-421-0972
LEIGHS A165 Silicone Alkyd Light Weatherwork Grey BS381C 676	Leighs Paints	5 litres	8010-99-982-2604
LEIGHS M255 BLACK	Leighs Paints	20 litres	8010-99-417-8341
LEIGHS M255 VANDYKE BROWN BS4800 08B29	Leighs Paints	5 litres	8010-99-905-0772
LEIGHS C750 Light Weatherwork Grey BS381C 676	Leighs Paints	5 litres	8010-99-212-2175
LEIGHS M671 Medium Grey	Leighs Paints	5 litres	8010-99-872-1746
LEIGHS M671 Medium Grey	Leighs Paints	20 litres	8010-99-862-7354
AMERCOAT 300A Black	Maker Coating Systems Ltd	5 litres	8010-17-115-8450
AMERCOAT 300A BS4800 00A01	Maker Coating Systems Ltd	5 litres	8010-99-535-8577
AMERCOAT 5105 Light Grey	Maker Coating Systems Ltd	5 litres	8010-17-117-4697
AMERCOAT 300A BS4800 14C39 Green	Maker Coating Systems Ltd	5 litres	8010-17-113-5690
AMERON ABC #3 Black	Maker Coating Systems Ltd	20 litres	8010-17-113-7497
AMERON PSX 700 Green BS4800 14C39	Maker Coating Systems Ltd	5 litres	8010-17-113-6169
AMERON PSX 700 White	Maker Coating Systems Ltd	5 litres	8010-99-858-1159
AMERLOCK 400C SAXE BLUE	Maker Coating Systems Ltd	5 litres	8010-17-117-6678
AMERLOCK 400C OXFORD BLUE	Maker Coating Systems Ltd	5 litres	8010-17-117-6677
AMERCOAT 65 THINNER	Maker Coating Systems Ltd	5 litres	8010-17-117-6680
AMERCOAT 911 THINNER	Maker Coating Systems Ltd	5 litres	8010-17-117-6681
NU-KLAD 114A FILLER	Maker Coating Systems Ltd	7.24 kg unit	8010-17-117-6679
SPC-203 (Sea To Sky) Paint Remover	Maker Coating Systems Ltd	5 litres	8010-20-003-3432

Material	Supplier	Pack size	NSN
SIGMA EDGEGUARD 5428 White	Maker Coating Systems Ltd	5 litres	8010-99-495-3513
SIGMASHIELD 420 7951 Ash Grey BS4800 00A01	Maker Coating Systems Ltd	5 litres	8010-99-549-3974
SIGMASHIELD 420 7951 Light Weatherwork Grey BS381C 676	Maker Coating Systems Ltd	5 litres	8010-99-723-3658
SIGMAHIELD 220 7922 Light Green	Maker Coating Systems Ltd	5 litres	8010-99-403-5015
SIGMASHIELD 280 7417 Yellow	Maker Coating Systems Ltd	5 litres	8030-99-354-0443
SIGMACOVER 280 LT 7417 Yellow	Maker Coating Systems Ltd	20 litres	8010-99-569-7697
AQUACOVER 45 7250 Azure Blue BS381C 104	Maker Coating Systems Ltd	5 litres	8010-99-863-5457
AQUACOVER 45 7250 Ash Grey B4800 00A01	Maker Coating Systems Ltd	5 litres	8010-99-277-8693
AQUACOVER 45 7250 Black	Maker Coating Systems Ltd	5 litres	8010-99-500-7412
AQUACOVER 45 7250 Canary BS381C 309	Maker Coating Systems Ltd	5 litres	8010-99-182-2670
AQUACOVER 45 7250 Dark Blue BS4800 18C39	Maker Coating Systems Ltd	5 litres	8010-99-957-7697
AQUACOVER 45 7250 Lt Brunswick Green BS381C	Maker Coating Systems Ltd	5 litres	8010-99-338-4734
AQUACOVER 45 7250 Lt Weatherwork Grey B381C	Maker Coating Systems Ltd	5 litres	8010-99-236-5744
AQUACOVER 45 7250 Mid Brunswick Green	Maker Coating Systems Ltd	5 litres	8010-99-269-1301
BS381C 226 AQUACOVER 45 7250 Signal Red BS381C 537	Maker Coating Systems Ltd	5 litres	8010-99-880-0100
AQUACOVER 45 7250 Wedgwood Blue BS4800	Maker Coating Systems Ltd	5 litres	8010-99-471-2071
18D43 AQUACOVER 45 7250 White	Maker Coating Systems Ltd	5 litres	8010-99-225-7360
AQUACOVER 25 7150 Buff	Maker Coating Systems Ltd	5 litres	8010-99-321-6318
SIGMA ALPHAGEN 20 Series Black 7384	Maker Coating Systems Ltd	20 litres	8010-99-280-8371

### INTENTIONALLY BLANK



Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
\$1. AREAS BELOW THE WATERLINE	Cours	1111010110	iii mare	inter var	micryar	per iti	Humber
a) General and Untiled areas							
Chugoku Paints (UK) Ltd							
UMEGUARD SX Black	1	150	4.33	20 hrs	30 days	470	
Antifouling Tie coat Hiper AC	1	50	10.2	6 hrs	None	493	
Hempel Paints Ltd							
HEMPADUR 4588 MIO Black	2	175	4.6	8 hrs	30 days	198	99-149-2439
Antifouling Tie coat HEMPADUR 45182 Black	1_	75	6.1	6 hrs	3 days	490	99-893-9646
International Paint Ltd			~	15	, .		
INTERGARD 5000		175	4.68	12 hrs	2 months	179	99-000-5256
Antifouling Tie coat INTERGARD 263	1	75	7.6	8 hrs	5 days	379	99-133-3854
Jotun Paints (Europe) Limited			$\Gamma_{\Gamma}$		, .		
PRIMASTIC UNIVERSAL R/T (STD)	1	200	3.75	10 hrs	#	194	99-509-7172
Antifouling Tie coat SAFEGUARD UNIVERSAL ES	1	150	4.13	10 hrs	#	245	
Maker Coating Systems Ltd/PPG							
CORROLESS EPF	2	200	4.8	16 hrs	3 days	80	25-150-0972
Antifouling Tie coat SIGMACOVER 525 7902 3333	1	150	5.6	3½ hrs	14 days	239	
PPG Protective & Marine Coatings	. 1					21	
SIGMASHIELD 220 7922 SIGMASHIELD 420 7951	1 1	125 150	6.4 5.6	3½ hrs 3½ hrs	14 days 14 days	262 239	99-403-5015 99-723-3658
Antifouling Tie coat SIGMACOVER 525 7902 Black	1	100	7.0	8 hrs	14 days	272	
<u>Leighs Paint</u>		a de la composição de l				12.7	
EPIGRIP M922M Mastic Aluminium RESISTEX M535 Black	2	200 75	4.2 5.3	4hrs 2	#	146 502	99-495-3873 99-453-1479
S2. ANTIFOULING	1/60		7		A STATE OF THE PARTY OF THE PAR		
Hempel Paints Ltd							
OLYMPIC 8695 Black	2	100	5.2	10 hrs	#	390	99-147-9828
<u>International Paint Ltd</u>				X			
INTERSPEED 340 Black	3	60	10	6 hrs	3 months	358	99-847-3193
<u>Leighs Paint</u>							
ENVOY TF500 Black	3	75	8.4	6 hrs	#	316	99-423-7738
PPG Protective & Marine Coatings							
SIGMA ECOFLEET 530 7385 Black	3	100	6.6	6 hrs	#	331	

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S3. HULL & SUPERSTRUCTURE							
(a) <u>Untiled areas</u>	572						
<u>Hempel Paints Ltd</u>							
HEMPADUR 4588 MIO 1234 HEMPADUR 45182 BLACK	2 1	175 75	4.6 6.1	8 hrs 6 hrs	30 days 3 days	198 490	99-149-2439 99-893-9646
<u>International Paint Ltd</u>							
INTERGARD 5000 INTERGARD 740M Black	240	175 50	4.68 10.02	12 hrs 16 hrs	2 months #	179 420	99-488-7443
<u>Leighs Paint</u>			_	P			
EPIGRIP M922M Mastic Aluminium RESISTEX M535 BLACK	2 1	200 75	4.2 5.3	4hrs 2	# #	146 502	99-495-3873 99-453-1479
Maker Coating Systems Ltd				33			
CORROLESS EPF	2	200	4.8	16 hrs	3 days	80	25-150-0972
\$4. PERISCOPES & Masts		7 7					
Visible portions outside the submarine							
EPIGRIP H795 IRR Matt BS285	1 3	35	10.9	4 hrs	#	572	99-225-0195
S5. SUPERSTRUCTURE CASING						λ	
(a) <u>General steelwork</u>							
Hempel Paints Ltd						1/2	
HEMPADUR 4588 MIO 1234 HEMPEL'S LOW SHEEN BLACK FINISH 510GB Def Stan 80-111	1 2	175	4.6	8 hrs	30 days	198	99-149-2439
International Paint Ltd						71	
INTERGARD 5000 INTERGARD 740M Black	1	250 50	3.28 10.02	12 hrs 16 hrs	2 months #	179 420	99-000-5256 99-488-7443
<u>Leighs Paint</u>			71	4		7	
EPIGRIP M922M Mastic Aluminium RESISTEX M535 BLACK	2 2	200 75	4.2 5.3	4hrs 2	#	146 502	99-495-3873 99-453-1479
Maker Coating Systems Ltd/PPG			1000				
AMERLOCK 400C BLACK	2	125	7	16 hrs	#	106	17-106-6001

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S6. WALKWAYS ON STEEL CASING							
Chugoku Paints (UK) Ltd							
UMEGUARD HS SILVER CAMIDECK FINISH TYPE 1 Black	1 2	125 190	7.4 2.84	20 hrs 16 hrs	30 days #	158 374	99-763-0243 99-543-0790
Hempel Paints Ltd							
HEMPADUR 4588 MIO 1243 HEMPEL'S NON SKID 4534GB TYPE 1 Black	1 2	100 200	8.2 3.2	7hrs 6 hrs	6 hrs* 30 days	168 347	99-149-2439 99-480-7979
I <u>nternational Paint Ltd</u>			_	P			
INTERGARD 5000 INTERSHIELD 852 TYPE 1 Black	1 2	150 200	5.47 1.92	12 hrs 12 hrs	4 days #	179 134	99-000-5256 99-250-1864
Maker Coating Systems Ltd/PPG				3			
AMERLOCK 400C AMERLOCK 400 NS TYPE 1 Black	1 2	125 300	7 4	16 hrs 16 hrs	# #	106 106	99-974-7400 99-184-8542
<u>Leighs Paint</u>							
EPIGRIP C425V2 EPIDEK M377 TYPE 1 Black	1 2	125 250	76.0 2.5	5 hrs 4 hrs	#	186 330	99-786-7949 99-777-8692
PPG Protective & Marine Coatings	437						
SIGMASHIELD 220 7922 SIGMACOVER 456HS 7712 TYPE 1 Black	1 2	125 125	6.4 5.8	3½ hrs 8 hrs	14 days #	262 156	99-403-5015
S7. INTERNAL DRY SPACES							
Chugoku Paints (UK) Ltd							
UMEGUARD HS SILVER CAMACRYL FINISH White	1 2	125 40	7.4 11	20 hrs 24 hrs	30 days #	158 33	99-763-0243 99-380-7010
Hempel Paints Ltd	1						
HEMUDUR PRIMER 1850 HEMUCRYL ENAMEL 5810 White	1 2	60 30	8.8 13.7	6 hrs 6 hrs	1 week 2 hrs	25 150	99-876-8090 99-229-0228
International Paint Ltd	1/60		75		A.		
INTERGARD 5000 BS 4800 00A01 INTERCRYL 700 White	1 2	125 35	6.56 11.42	12 hrs 60 mins	# #	179 135	99-000-5256 99-979-7888
Jotun Paints (Europe) Limited							
WATERFINE PRIMER WATERFINE TOPCOAT White	2 2	100 50	4.6 7.2	1.5 hrs 1.5 hrs	# #	100 195	99-462-9708 99-372-9140
Maker Coating Systems Ltd/PPG							
AMERLOCK 400C AMERCOAT 300A White	1 2	125 50	7 10.4	16 hrs 16 hrs	# #	106 0	99-974-7400 17-108-8249
Maker Coating Systems Ltd							
SIGMACRYLIC AQUACOVER 25 7150 SIGMACRYLIC AQUACOVER 45 7520 White	2 2	75 50	6.6 6.8	4 hrs 6 hrs	# #	31 17	99-321-6318 99-225-7360
<u>Leighs Paint</u>							
EPIGRIP C425V2 ENVIROGARD M770 White	1 2	125 25	6.0 15.6	5 hrs 3 hrs	# #	186 78	99-786-7949 99-231-3852

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S8. INTERIOR WET COMPARMENTS (Complete Represervation)							
Chugoku Paints (UK) Ltd							
UMEGUARD HS SILVER AQUALIFE GLOSS FINISH White	1 2	125 40	7.4 10	20 hrs 16 hrs	30 days 7 days	158 132	99-763-0243 99-371-8400
Hempel Paints Ltd		**					
HEMUDUR 4588 HEMPEL'S WATER BASED EPOXY 4858 White	200	125 80	6.5 6.7	5 hrs 12 hrs	# 15 days	198 36	99-803-7233
International Paint Ltd				16			
INTERGARD 5000 Grey BS 4800 00A01 INTERGARD 1735 White	Act la	125 50	6.56 11.2	24 hrs 12 hrs	# #	179 132	99-000-5256
Jotun Paints (Europe) Limited				7			
WATERFINE PRIMER Grey WATERFINE PRIMER White	1 1 or 2	100 40	4.6 11.6	1.5 hrs 1.5 hrs	# #	60 60	99-462-9708
Maker Coating Systems Ltd/PPG				11/1			
AMERLOCK 400C AMERCOAT 300A White	1 1	125 50	7 10.4	16 hrs 16 hrs	# #	106 0	99-974-7400 17-108-8249
Maker Coating Systems Ltd						1	
SIGMACOVER 456 HS 7712 SIGMASHIELD 420 White	2 1	75 150	9.7 5.6	8 hrs 3½ hrs	# 14 days	277 239	
<u>Leighs Paint</u>						<i>(1)</i>	
EPIGRIP C425V2 BIOGARD M630V2 White	1 1	125 75	6.0 6.8	5 hrs 24 hrs	#	186 0	99-786-7949 99-313-4440
S9. GROUP EXHAUST VALVES					Ding	7	
Leighs Paint				10		4	
DOX-ANODE 5V2	11	75	8.7	24 hrs	#	470	
S10. DSRV SEATING				4	-		
<u>Leighs Paint</u>			1	-5			
EPIGRIP C425V2 EPIDECK L716	1 2	175 75	4.3 6.8	8 hrs 4 hrs	# #	186 420	99-786-7949 99-225-0689

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
\$11. INTERIOR PRESSURE HULL SURFACE Emergency Cooling Tanks							
a) <u>S Class Soft and Saddle Tanks</u>							
Hempel Paints Ltd							
GALVOSIL 1570 – Approved by Rolls Royce	1	75	8.53	36 hrs	#	535	99-170-5097
International Paint Ltd	80-		~0	0			99-943-1152
INTERGARD 5000 – Pending Approval	2	125	6.56	12 hrs	3 months	179	99-000-5256
b) <u>Trafalgar Class Hard Tank</u>				B			
International Paint Ltd	. Alla		0_	. 5			
INTERGARD 5000 – Pending Approval	2	125	6.56	12 hrs	3 months	179	99-000-5256
<u>Leighs Paint</u>							
EPIGRIP M251 – Pending Approval EPIGRIP M253 – Pending Approval	1	125 125	4.4 4.4	16 16	7 days 7 days	390 390	99-301-1924 99-623-8463
Maker Coating Systems Ltd							
SIGMA PHENGUARD 930 (Primer) – Approved by Rolls Royce SIGMA PHENGUARD 935 (Coating) – Approved by Rolls Royce SIGMA PHENGUARD 940 (Finish) – Approved by Rolls Royce	1 1 1	100 100 100	6.6 6.6 6.6	36 hrs 24 hrs 24 hrs	21 days 21 days 21 days	300 300 300	99-667-6118 99-925-0882 99-976-1657
SIGMAGUARD 795 (Maintenance)	2	150	5.0	10hrs	21 days	273	
Maker Coating Systems Ltd							
CORROLESS EPF – Approved by Rolls Royce CORROLESS RF35 – Approved by Rolls Royce	1	200 200	4.8 4.8	16hrs 16hrs	3 days 3 days	80 93	25-150-0972 99-337-0778
c) <u>Trafalgar Class Jacket Tank</u>				5		12.	
International Paint Ltd							
INTERGARD 5000 - Approved by Rolls Royce	2	125	6.56	12 hrs	3 months	179	99-000-5256
Maker Coating Systems Ltd	1/7 6		41	)		7	
CORROLESS EPF – Approved by Rolls Royce CORROLESS RF35 – Approved by Rolls Royce	1	200 200	4.8 4.8	16hrs 16hrs	3 days 3 days	80 93	25-150-0972 99-337-0778
AMERLOCK 400C – Approved by Rolls Royce	2	125	7	16 hrs	3 days	106	17-108-8248
<u>Leighs Paint</u>				7			
EPIGRIP M922	2	200	4.2	4hrs	#	143	99-834-8384
EPIGRIP M251 EPIGRIP M253	1	125 125	4.4 4.4	16 16	7 days 7 days	390 390	99-301-1924 99-623-8463

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
\$11. (cont) INTERIOR SURFACES							
d) <u>Vanguard Class High Pressure Decay Heat Removal Tank</u> (HPDR)							
International Paint Ltd							
INTERGARD 5000 – Pending Approval	2	125	6.56	12 hrs	3 months	179	99-000-5256
<u>Leighs Paint</u>							
EPIGRIP M251 – Pending Approval EPIGRIP M253 – Pending Approval	190	125 125	4.4 4.4	16 16	7 days 7 days	390 390	99-301-1924 99-623-8463
Maker Coating Systems Ltd							
CORROLESS EPF – Pending Approval CORROLESS RF35 – Pending Approval		200 200	4.8 4.8	16hrs 16hrs	3 days 3 days	80 93	25-150-0972 99-337-0778
AMERLOCK 400C – Pending Approval	2	125	7	16 hrs	3 days	106	17-108-8248
Maker Coating Systems Ltd			$\mathbf{E}_{T}$				
SIGMA PHENGUARD 930 (Primer) – Approved by Rolls Royce SIGMA PHENGUARD 935 (Coating) – Approved by Rolls Royce SIGMA PHENGUARD 940 (Finish) – Approved by Rolls Royce	1 1 1	100 100 100	6.6 6.6 6.6	36 hrs 24 hrs 24 hrs	21 days 21 days 21 days	315 315 315	99-667-6118 99-925-0882 99-976-1657
SIGMAGUARD 795 (Maintenance)	2	150	5.0	10hrs	21 days	273	
EXTERNAL SURFACES			-			15.	
International Paint Ltd			لالل			À	
INTERGARD 5000 – Pending Approval	2	125	6.56	12 hrs	3 months	179	99-000-5256
<u>Leighs Paint</u>				W 57		1/1	
EPIGRIP M251 EPIGRIP M253	1 1	125 125	4.4 4.4	16 16	7 days 7 days	390 390	99-301-1924 99-623-8463
Maker Coating Systems Ltd						27	
CORROLESS EPF CORROLESS RF35	19	200 200	4.8 4.8	16hrs 16hrs	3 days 3 days	80 93	25-150-0972 99-337-0778
AMERLOCK 400C	2	125	7	16 hrs	3 days	106	17-108-8248
Maker Coating Systems Ltd							
SIGMA PHENGUARD 930 (Primer) – Approved by Rolls Royce SIGMA PHENGUARD 935 (Coating) – Approved by Rolls Royce SIGMA PHENGUARD 940 (Finish) – Approved by Rolls Royce	1 1 1	100 100 100	6.6 6.6 6.6	36 hrs 24 hrs 24 hrs	21 days 21 days 21 days	315 315 315	99-667-6118 99-925-0882 99-976-1657
SIGMAGUARD 795 (Maintenance)	2	150	5.0	10hrs	21 days	273	
e) <u>Astute Class</u>							
Advanced Polymer Coatings							
SILOXIRANE 2031LE – Approved by Rolls Royce	2	150	1.72	24 hrs	3 days	102	
<u>Leighs Paint</u>							
DURAGLASS 41V - Approved by Rolls-Royce	2	500	0.84	2½ hrs	#	150	

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
\$12. REACTOR COMPARTMENT							
a) Interior surfaces							
Hempel Paints Ltd	200		A0	_			
HEMPADUR NPP 55672-10000 White	3	75	8.5	24 hrs	21 days	327	
International Paint Ltd							
INTERGARD 5000 INTERGARD 1735 White	1 2	125 50	6.56 11.20	12 hrs 12 hrs	# #	179 132	99-000-5256
Maker Coating Systems Ltd/PPG				7			
AMERLOCK 400C AMERCOAT 300A White	1 2	125 50	7 10.4	16 hrs 16 hrs	# #	106 0	99-974-7400 17-108-8249
<u>Leighs Paint</u>				7///			
EPIGRIP C400V3 EPIGRIP H766 White	1 1	200 50	9.3 14	5 hrs 5 hrs	# #	257 395	99-623-9946
HEAT RESISTANT ALUMINIUM >250°C						1	
<u>Firwood Paints Ltd</u>						λ	
FIRGLO 64	1-2			4 hrs		121	
International Paint Ltd							
INTERTHERM 50	1-2	25	18	12hrs	#	495	99-257-1455
b) External surfaces						124	
See S1. but note dft not to exceed that stated in BR3939 Section 12	4			34		7	
S13. INTERIOR DECKS	1/2 6	4 173	4,		A	7	
<u>Leighs Paint</u>	1/6						
EPIGRIP C425V2 BIOGARD M630V2	1	175 75	4.3 6.8	8 hrs 24 hrs	#	186 0	99-786-7949 99-255-5237
International Paint Ltd				7			
INTERGARD 5000 INTERGARD 1735	1	125 50	6.56 11.2	12 hrs 12 hrs	# #	179 132	99-000-5256 99-255-0527
Maker Coating Systems Ltd/PPG							
AMERLOCK 400C	2	125	7	16 hrs	#	106	99-383-2335

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
<b>\$14</b> . BATTERY COMPARTMENTS							
Chugoku Paints (UK) Ltd							
UMEGARD HS SILVER AQUALIFE GLOSS FINISH GREY 00A01	1 2	125 40	7.12 10	20 hrs 16 hrs	7 days 7 days	108 132	99-264-0145 99-757-9334
Hempel Paints Ltd	20-		~0				
HEMPADUR 4588 HEMPEL'S WATERBASED EPOXY 4858 00A01	1	150 80	5.5 6.7	5 hrs 12 hrs	# 15 days	198 36	99-803-7233 99-988-2715
International Paint Ltd	A		A .	J.P.			
INTERGARD 5000	1	125	6.56	12 hrs	#	179	99-000-5256
Jotun Paints (Europe) Limited	J.Y.		Z.	7			
POLYMASTIC 2000 POLYMASTIC 2000 GREY 00A01	1	200 200	4.8 4.8	9 hrs 9 hrs	# #	80 80	99-395-8448 99-665-9772
Maker Coating Systems Ltd/PPG				7///			
AMERLOCK 400C AMERCOAT 300A White	1	125 50	7 10.4	16 hrs 16 hrs	# #	106 0	99-974-7400 17-108-8249
<u>Leighs Paint</u>			Pm.			4	
EPIGRIP C425V2 BIOGARD M630V2 GREY 00A01	1	100 75	7.5 6.8	4 hrs 24 hrs	#	186 0	99 786 7949 99-535-5105
<b>\$15.</b> MACHINERY SPACE BILGES & MOUNTED MACHINERY RAFTS						12	
Chugoku Paints (UK) Ltd				(		1/4	
UMEGARD HS SILVER UMEGARD HS GREY	1	125 125	6.5 6.5	15 hrs 15 hrs	10 days 10 days	108 158	99-264-0146 99-126-9478
Finish for Mounted Machinery Rafts	17			0		4	
CAMACRYL FINISH MAC Canary BS381C 309	1	40	11	24 hrs	#	33	99-446-0554
Hempel Paints Ltd	1/6	Sales of	//				
HEMPADUR 4588 WHITE	1	150	5.5	5 hrs	#	220	99-264-0387
Finish for Mounted Machinery Rafts				55			
HEMUCRYL ENAMEL 5810 Canary BS381C 309	1	30	13.7	6 hrs	#	70	99-858-1263
International Paint Ltd		V					
INTERGARD 5000	1	175	4.68	12 hrs	3 months	179	99-000-5256
Finish for Mounted Machinery Rafts							
INTERCRYL 700 Yellow RAL 1018	1	35	11.42	6 hrs	#	18	99-774-1224
Jotun Paints (Europe) Limited							
JOTAMASTIC 87 WHITE	2	200	4.1	10 hrs	#	130	
Finish for Mounted Machinery Rafts							
WATERFINE TOPCOAT Canary BS381C 309	1	40	9.2	8 hrs	#	105	99-352-4369

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S15. MACHINERY SPACE BILGES & MOUNTED MACHINERY RAFTS (cont.)	223					por in	
Maker Coating Systems Ltd/PPG							
CORROLESS EPF	1	200	4.8	16 hrs	3 days	80	25-150-0972
Finish for Mounted Machinery Rafts	900	25	~0				
AMERLOCK 400C YELLOW	1	125	7	16 hrs	#	106	
Maker Coating Systems Ltd				P			
SIGMA NOVAGARD 840 7468	i ila	400	2.5	24 hrs	2 months	13	
Finish for Mounted Machinery Rafts			-17	78			
SIGMA AQUACOVER 45 7250 Canary BS381C 309	1	50	6.8	6 hrs	#	17	99-182-2670
Leighs Paint		A					
EPIGRIP M902 EPIGRIP L524	1	125 125	6.0 5.1	6.5 hrs 12 hrs	# #	219 296	99-421-0972 99-564-2934
Finish for Mounted Machinery Rafts							
ENVIROGARD M770 Canary BS381C 309	1	25	15.6	3 hrs	#	78	99-726-4136
S16. OIL TANKS, LUBE OIL, HYDRRAULIC, LP AIR TANKS ETC						A	
Chugoku Paints (UK) Ltd						W	
CLEANKEEP 5000*	1	300	3.33	48 hrs	14 days	0	
Hempel Paints Ltd				5		12.	
HEMPADUR 85671	3	100	6.8	36 hrs	5 days	320	
International Paint Ltd				0		74	
INTERLINE 850 (TLA850/A)	2	125	6.08	8 hrs	30 days	212	
Jotun Paints (Europe) Limited	1/6	Separate Se					
TANKGUARD STORAGE	2	125	5.0	10 hrs	30 days	261	
Maker Coating Systems Ltd							
CORROLESS EPF CORROLESS RF35 Off White	1	200 200	4.8 4.8	16 hrs 16 hrs	3 days 3 days	80 93	25-150-0972 25-150-0973
Maker Coating Systems Ltd		200	4.0	101115	o uays	93	20-100-0813
SIGMAGUARD CSF 650 7443	1	300	3.3	24 hrs	20 days	17	
Leighs Paint		- 550	0.0	27 1113	20 days		
EPIGRIP H735 EPIGRIP H736	1 1	125 125	5.4 5.2	6 6	3 days 3 days	270 283	99-341-1160 99-850-0225

Proposed Systems/Materials	Number of	NDFT per coat	Theo SR	Min Recoat	Max Recoat	VOC gms	NATO Stock
-	Coats	microns	m²/litre	Interval	Interval	per Itr	Number
\$17. POTABLE WATER TANKS							
Chugoku Paints (UK) Ltd							
CLEENKEEP 5000*	1	300	3.33	48 hrs	14 days	0	
<u>Hempel Paints Ltd</u>							
HEMPADUR 85671	3	100	6.8	36 hrs	5 days	320	
International Paint Ltd				P			
INTERLINE 925	1	300	3.35	48 hrs	3 days	1	
Jotun Paints (Europe) Limited	(elle		La l	75			
TANKGUARD AQUA	2	225	4.44	10 hrs	7 days	?	
Maker Coating Systems Ltd	100		$\mathbf{E}_{T}$				
CORROLESS EPF	1	200	4.8	16 hrs	3 days	80	25-150-0972
CORROLESS RF35	1	200	4.8	16 hrs	3 days	93	99-337-0778
Maker Coating Systems Ltd					77/15/		
SIGMAGUARD CSF 650 7443	1	300	3.3	24 hrs	20 days	17	
<u>Leighs Paint</u>					18	)a .	
HYDROGARD H20V2	1	400	2.5	12hrs	36 hrs	0	
\$18. SLOP DRAIN TANKS				77		1/1	
<u>Leighs Paint</u>						1/1	
EPIGRIP M251	1	125	4.4	16	7 days	390	99-301-1924
EPIGRIP M253	1	125	4.4	16	7 days	390	99-623-8463
S19. AFFF TANKS	1			C		7	
Chugoku Paints (UK) Ltd	17 6		41	)		7	
CLEENKEEP 5000*	1	300	3.33	48 hrs	14 days	0	
Hempel Paints Ltd				1			
HEMPADUR MULTI STRENGTH 3553	2	250	4.0	24 hrs	5 days	0	
International Paint Ltd							
INTERLINE 704	2	125	4.24	23 hrs	21 days	385	
Jotun Paints (Europe) Limited							
TANKGUARD AQUA	2	225	4.44	10 hrs	7 days	?	
Maker Coating Systems Ltd							
CORROLESS EPF CORROLESS RF35	1	200 200	4.8 4.8	16 hrs 16 hrs	3 days 3 days	80 93	25-150-0972 99-337-0778

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S19. AFFF TANKS (cont.)							
Maker Coating Systems Ltd							
SIGMAGUARD CSF 585 7785	1	300	3.33	24 hrs	20 days	5	
Leighs Paint							
EPIGRIP M251 EPIGRIP M253	10	125 125	4.4 4.4	16 16	7 days 7 days	390 390	99-301-1924 99-623-8463
S20. DEMINERALISED WATER TANKS			1	75			
Chugoku Paints (UK) Ltd	16113		10	20			
CLEENKEEP 5000*	1	300	3.33	48 hrs	14 days	0	
Hempel Paints Ltd			$\mathbf{E}_{\mathbf{r}}$				
HEMPADUR MULTI STRENGTH 3553	2	250	4.0	24 hrs	5 days	0	
International Paint Ltd							
INTERLINE 925 (THA127/A)	1	300	3.33	18 hrs	3 days	1	
Jotun Paints (Europe) Limited						h,	
TANKGUARD AQUA	2	225	4.44	10 hrs	7 days	?	
Maker Coating Systems Ltd						1/4	
CORROLESS EPF CORROLESS RF35	1	200 200	4.8 4.8	16 hrs 16 hrs	3 days 3 days	80 93	25-150-0972 99-337-0778
Maker Coating Systems Ltd				5		1/3	
SIGMAGUARD CSF 650 7443	1	300	3.3	24 hrs	20 days	17	
<u>Leighs Paint</u>	4					17	
EPIGRIP M251 EPIGRIP M253	1	125 125	4.4 4.4	16 16	7 days 7 days	390 390	99-301-1924 99-623-8463

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
<b>\$21</b> . <u>HOLDING PRIMER</u>	5:3						
a) <u>Blasted steelwork</u>							
Chugoku Paints (UK) Ltd		ASTE 1					
NZ PRIMER S	1	25	15.9	16 hrs	#	641	
Hempel Paints Ltd	200		90	90			
HEMPADUR 1557	1	40	13.5	#	#	430	99-943-1152
International Paint Ltd	7		1	P			
INTERGARD 269	7 61 6	30	15.67	6 hrs	#	411	99-983-0743
Jotun Paints (Europe) Limited				7			
EPOXY HOLDING PRIMER	1.1	20	12.5	7 hrs	7 days	600	
Maker Coating Systems Ltd/PPG		7		1			
SIGMACOVER 280 7417	1	50	11.4	8 hrs	3 months	432	99-569-7697
<u>Leighs Paint</u>		(3)					
METAGARD L574	13	25	11.6	3 hrs	#	594	99-895-9894
b) <u>Damp Surfaces</u>			لالل			À	
Hempel Paints Ltd						24	
HEMPADUR 1557	1	40	13.5	#	#	430	99-943-1152
<u>Leighs Paint</u>				تندي		1/1	
EPIGRIP M111	1	60	9.0	4hrs	#	383	99-884-5957

	Number	NDFT	Theo	Min	Max	VOC	NATO
Proposed Systems/Materials	of Coats	per coat microns	SR m²/litre	Recoat Interval	Recoat Interval	gms per ltr	Stock Number
	Coats	IIIICIOIIS	III /IIII e	intervar	intervar	periu	Number
<b>\$22.</b> PRIMERS FOR NON FERROUS METALS							
Chugoku Paints (UK) Ltd							
(a) <u>Aluminium</u> : ALP 500	1	50	11.6	10 hrs	#	414	99-967-8636
(b) Stainless Steel: UMEGUARD HS	100	125	7.40	20 hrs	30 days	158	99-126-9478
(c) Zinc Spray: GALVANITE 200	1	30	14.10	4 hrs	30 days	587	99-290-5829
(d) <u>Galvanise</u> : GALVANITE 200	4	30	14.10	4 hrs	30 days	587	99-290-5829
Hempel Paints Ltd	Ell'S		No.	7			
a) <u>Aluminium</u> HEMUCRYL TIE COAT 1820 (1 pack) or HEMPADUR 1555 (2 pack)	1 1	20 50	19.0 8.6	24 hrs 2 hrs	30 mins #	40 515	99-199-2908 99-870-0653
b) <u>Stainless Steel</u> HEMUCRYL TIE COAT 1820 ( 1 pack ) or HEMPADUR 1555 (2 pack)	1 1	20 50	19.0 8.6	24 hrs 2 hrs	30 mins #	40 515	99-199-2908 99-870-0653
c & d) Zinc Spray HEMUCRYL TIE COAT 1820 ( 1 pack) or Galvanise HEMPADUR 1555 (2 pack)	1	20 50	19.0 8.6	24 hrs 2 hrs	30 mins #	40 515	99-199-2908 99-870-0653
e) Indicator coat for FRP GELPROTECT SFE200 Cream	43)	200	5.0	8 hrs	5 days	10	99-517-4318
International Paint Ltd			الزا			i)a	
a) – d) Aluminium, Stainless steel, Zinc Spray or Galvanised					T.	121	
Standard INTERGARD 269		30	15.67	6 hrs	#	411	99-983-0743
Alternative INTERGARD 276		30	15.67	6 hrs	#	411	
Jotun Paints (Europe) Limited				SIL		16.4	
a) <u>Aluminium</u> : WATERFINE PRIMER	1	60	7.6	1.5 hrs	#	100	99-462-9708
b) Stainless Steel: WATERFINE PRIMER	1	60	7.6	1.5 hrs	#	100	99-462-9708
	1	60	7.6		#	7	
c & d) Zinc Spray/Galvanise: WATERFINE PRIMER	1	60	7.6	1.5 hrs		100	99-462-9708
e) FRP Indicator Coat: BALLOXY HB Light (Green)	1	200	4.1	10 hrs	#	167	17-108-7825
			-				

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S22. PRIMERS FOR NON FERROUS METALS (cont)	441						
Maker Coating Systems Ltd/PPG							
a) <u>Aluminium</u> : AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400
b) <u>Stainless Steel:</u> SIGMACOVER 280 7417	1	50	11.4	8 hrs	6 months	432	99-569-7697
c) <u>Zinc Spray:</u> AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400
d) <u>Galvanise:</u> SIGMACOVER 280 7417	1	50	11.4	8 hrs	3 months	432	99-569-7697
e) Indicator Coat for FRP: AMERLOCK 400C Green RAL 6011	alla	125	7	16 hrs	#	106	17-120-4829
<u>Leighs Paint</u>				y			
a) <u>Aluminium</u> : EPIGRIP H795	1.1	35	10.9	4 hrs	#	575	99-225-0195
b) <u>Stainless Steel</u> : EPIGRIP H795	1	35	10.9	4 hrs	#	575	99-225-0195
c) <u>Zinc Spray</u> : METAGARD L574	1	25	11.6	4 hrs	#	594	99-895-9894
d) <u>Galvanise</u> : EPIGRIP H795	1	35	10.9	4 hrs	#	575	99-225-0195
e) Indicator Coat for FRP: EPIGRIP C425V2 Off White	1	100	7.5	4 hrs	#	186	99-133-8714
S23. HIGH EROSION AREAS	4					3	
Hempel Paints Ltd				25		Üt.	
HEMPADUR MULTISTRENGTH GF3597	1	300	2.9	16 hrs	30 days	180	
International Paint Ltd				5		1	
INTERZONE 505	1	300	3.0	6	4 days	157	
Maker Coating Systems Ltd				0		7	
CORROLESS EPF	2	200	4.8	16	3 days	80	99-212-7555
<u>Leighs Paint</u>				A			
EPIGRIP M922	1	400	2.1	3 hrs	#	143	99-834-8384
S24. BENEATH TILING			35	*			
<u>Wessex Resins</u>							
WRA 518 UW 45 (WRA4501)							99-568-6036 99-009-0811

Proposed Systems/Materials	Number of Coats	NDFT per coat microns		Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
\$25. SYSTEM FOR COATING NATURAL RUBBER MOUNTS							
Applied by Mount supplier not to be touched up once fitted							
Dunlop Precision Rubber Ltd							
DUNLOP NPL 100	2	25					99-541-9576
or							
Maker Coating Systems Ltd							
GUMMIPAINT - ORANGE	2	35					Not required
S26. SYSTEM FOR COATING INTERNAL NUTS AND BOLTS AND TO FILL GAPS BETWEEN CANNING PLATES AND LEAD  Maker Coating Systems Ltd							
CORROLESS CCI 355 CORROSION INHIBITOR (HD GREASE)	1	N/A			N/A	N/A	99-676-5736
S27. SEA WATER TANKS  Chugoku Paints (UK) Ltd							
(i) UMEGUARD HS SILVER* UMEGUARD HS GREY or (ii) NOVA 2000	1 1 2	125 125 125	6.50 6.50	15 hrs 15 hrs 15 hrs	10 days 10 days 10 days	108 158 173	99-264-0145 99-126-9478
Hempel Paints Ltd							
HEMPADUR 4507	2	150	4.8	16 hrs	10 days	270	99-149-2439
International Paint Ltd							
INTERGARD 5000	2	125	6.56	12 hrs	3 months	179	99-000-5256
Jotun Paints (Europe) Limited							
BALLOXY HB LIGHT	2	150	5.5	10 hrs	#	150	17-108-7824
Maker Coating Systems Ltd							
CORROLESS EPF	2	200	4.8	16 hrs	3 days	80	25-150-0972
Maker Coating Systems Ltd/ PPG							
SIGMAGUARD CSF650	1	300	3.3	24 hrs	20 days	143	
<u>Leighs Paint</u>							
EPIGRIP L524	2	125	5.1	12 hrs	#	296	99-564-2934

(Maker Coating Systems Ltd) Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd ALP 50 Chugoku Paints (UK) Ltd GALV/ Chugoku Paints (UK) Ltd GALV/ Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd UMEG UNIOP Precision Rubber Ltd (Dunlop Aerospace Ltd) Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP	COAT 300A BS4800 00A01  CRYL FINISH MAC White  UARD HS SILVER  CRYL FINISH MAC Ash Grey BS4800 00A01  00  ANITE 200 White  UARD HS Grey  UARD HS Grey  UARD HS White  CRYL FINISH MAC Canary BS381C 309  CRYL FINISH MAC Wedgewood Blue BS4800 18D43  CRYL FINISH MAC Dark Blue BS4800 18C39  CRYL FINISH MAC Mid Brunswick Green BS381C 226  CRYL FINISH MAC Azure Blue BS381C 104  UARD HS SILVER  0 ORANGE  ELS WATER BASED EPOXY 48580 BS4800 00A01  ADUR 15570 LIGHT GREY 12430  CRYL ENAMEL 5810 Dark Blue BS4800 18C39  CRYL ENAMEL 5810 Canary BS381C 309  ADUR 45150 White  CRYL ENAMEL 5810 White	See 4.3	0 g/l  86 g/l  158 g/l  86 g/l  414 g/l  495 g/l  495 g/l  158 g/l  86 g/l  86 g/l  86 g/l  86 g/l  86 g/l  70 g/l  80 g/l  158 g/l  80 g/l	8010-99-335-8577  8010-99-380-7010 8010-99-264-0145 8010-99-676-4126 8010-99-967-8636 8010-99-995-4247 8010-99-126-9478 8010-99-126-9478 8010-99-564-2409 8010-99-665-3660 8010-99-862-0034 8010-99-366-5444 8010-99-763-0243 8010-99-763-0243 8010-99-541-9576  8010-99-988-2715 8010-99-170-5097 8010-99-290-5925
Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd GALV/ Chugoku Paints (UK) Ltd GALV/ Chugoku Paints (UK) Ltd GALV/ Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd UMEG Dunlop Precision Rubber Ltd (Dunlop Aerospace Ltd) Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP	UARD HS SILVER CRYL FINISH MAC Ash Grey BS4800 00A01 00 ANITE 200 White ANITE 200 White UARD HS Grey UARD HS White CRYL FINISH MAC Canary BS381C 309 CRYL FINISH MAC Wedgewood Blue BS4800 18D43 CRYL FINISH MAC Dark Blue BS4800 18C39 CRYL FINISH MAC Mid Brunswick Green BS381C 226 CRYL FINISH MAC Azure Blue BS381C 104 UARD HS SILVER 0 ORANGE ELS WATER BASED EPOXY 48580 BS4800 00A01 ADUR 15570 LIGHT GREY 12430 CRYL ENAMEL 5810 Dark Blue BS4800 18C39 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 45150 White	See 4.3 See 4.3	158 g/l 86 g/l 414 g/l 495 g/l 495 g/l 158 g/l 158 g/l 86 g/l 86 g/l 86 g/l 86 g/l 86 g/l 70 g/l 81 g/l 85 g/l 86 g/l 86 g/l 86 g/l 86 g/l 86 g/l 86 g/l	8010-99-264-0145 8010-99-676-4126 8010-99-967-8636 8010-99-995-4247 8010-99-290-5829 8010-99-126-9478 8010-99-564-2409 8010-99-665-3660 8010-99-665-3660 8010-99-862-0034 8010-99-366-5444 8010-99-763-0243 8010-99-541-9576 8010-99-988-2715 8010-99-170-5097 8010-99-290-5925
Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd GALV/ Chugoku Paints (UK) Ltd GALV/ Chugoku Paints (UK) Ltd GALV/ Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd UMEG UMEG UMEG UMEG UMEG UMEG UMEG UMEG	UARD HS SILVER CRYL FINISH MAC Ash Grey BS4800 00A01 00 ANITE 200 White ANITE 200 White UARD HS Grey UARD HS White CRYL FINISH MAC Canary BS381C 309 CRYL FINISH MAC Wedgewood Blue BS4800 18D43 CRYL FINISH MAC Dark Blue BS4800 18C39 CRYL FINISH MAC Mid Brunswick Green BS381C 226 CRYL FINISH MAC Azure Blue BS381C 104 UARD HS SILVER 0 ORANGE ELS WATER BASED EPOXY 48580 BS4800 00A01 ADUR 15570 LIGHT GREY 12430 CRYL ENAMEL 5810 Dark Blue BS4800 18C39 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 45150 White	See 4.3 See 4.3	158 g/l 86 g/l 414 g/l 495 g/l 495 g/l 158 g/l 158 g/l 86 g/l 86 g/l 86 g/l 86 g/l 86 g/l 70 g/l 81 g/l 85 g/l 86 g/l 86 g/l 86 g/l 86 g/l 86 g/l 86 g/l	8010-99-264-0145 8010-99-676-4126 8010-99-967-8636 8010-99-995-4247 8010-99-290-5829 8010-99-126-9478 8010-99-564-2409 8010-99-665-3660 8010-99-665-3660 8010-99-862-0034 8010-99-366-5444 8010-99-763-0243 8010-99-541-9576 8010-99-988-2715 8010-99-170-5097 8010-99-290-5925
Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd ALP 50 Chugoku Paints (UK) Ltd GALV/ Chugoku Paints (UK) Ltd GALV/ Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd UMEG Dunlop Precision Rubber Ltd (Dunlop Aerospace Ltd) Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU	CRYL FINISH MAC Ash Grey BS4800 00A01  ANITE 200 White ANITE 200 White UARD HS Grey UARD HS White CRYL FINISH MAC Canary BS381C 309 CRYL FINISH MAC Wedgewood Blue BS4800 18D43 CRYL FINISH MAC Dark Blue BS4800 18C39 CRYL FINISH MAC Mid Brunswick Green BS381C 226 CRYL FINISH MAC Azure Blue BS381C 104 UARD HS SILVER 0 ORANGE ELS WATER BASED EPOXY 48580 BS4800 00A01 ADUR 15570 LIGHT GREY 12430 CRYL ENAMEL 5810 Dark Blue BS4800 18C39 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 45150 White	See 4.3 See 4.3	86 g/l 414 g/l 495 g/l 495 g/l 158 g/l 158 g/l 86 g/l 86 g/l 86 g/l 86 g/l 86 g/l No 25 g/l 430 g/l	8010-99-676-4126 8010-99-967-8636 8010-99-995-4247 8010-99-290-5829 8010-99-126-9478 8010-99-564-2409 8010-99-665-3660 8010-99-862-0034 8010-99-366-5444 8010-99-763-0243 8010-99-541-9576 8010-99-988-2715 8010-99-170-5097 8010-99-290-5925
Chugoku Paints (UK) Ltd GALV/ Chugoku Paints (UK) Ltd GALV/ Chugoku Paints (UK) Ltd GALV/ Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd UMEG Dunlop Precision Rubber Ltd (Dunlop Aerospace Ltd) Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMU Hempel Paints Limited HEMU	ANITE 200 White ANITE 200 White UARD HS Grey UARD HS White CRYL FINISH MAC Canary BS381C 309 CRYL FINISH MAC Wedgewood Blue BS4800 18D43 CRYL FINISH MAC Dark Blue BS4800 18C39 CRYL FINISH MAC Mid Brunswick Green BS381C 226 CRYL FINISH MAC Azure Blue BS381C 104 UARD HS SILVER 0 ORANGE ELS WATER BASED EPOXY 48580 BS4800 00A01 ADUR 15570 LIGHT GREY 12430 CRYL ENAMEL 5810 Dark Blue BS4800 18C39 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 45150 White	See 4.3 See 4.3	414 g/l 495 g/l 495 g/l 158 g/l 158 g/l 86 g/l 86 g/l 86 g/l 86 g/l 86 g/l No 25 g/l 430 g/l	8010-99-967-8636 8010-99-995-4247 8010-99-290-5829 8010-99-126-9478 8010-99-564-2409 8010-99-665-3660 8010-99-862-0034 8010-99-366-5444 8010-99-763-0243 8010-99-541-9576 8010-99-988-2715 8010-99-170-5097 8010-99-290-5925
Chugoku Paints (UK) Ltd GALV/ Chugoku Paints (UK) Ltd GALV/ Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd UMEG Dunlop Precision Rubber Ltd (Dunlop Aerospace Ltd) Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU	ANITE 200 White ANITE 200 White UARD HS Grey UARD HS White CRYL FINISH MAC Canary BS381C 309 CRYL FINISH MAC Wedgewood Blue BS4800 18D43 CRYL FINISH MAC Dark Blue BS4800 18C39 CRYL FINISH MAC Mid Brunswick Green BS381C 226 CRYL FINISH MAC Azure Blue BS381C 104 UARD HS SILVER 0 ORANGE ELS WATER BASED EPOXY 48580 BS4800 00A01 ADUR 15570 LIGHT GREY 12430 CRYL ENAMEL 5810 Dark Blue BS4800 18C39 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 45150 White	See 4.3 See 4.3	495 g/l 495 g/l 158 g/l 158 g/l 86 g/l 86 g/l 86 g/l 86 g/l 86 g/l No 25 g/l 430 g/l	8010-99-995-4247 8010-99-290-5829 8010-99-126-9478 8010-99-564-2409 8010-99-665-3660 8010-99-862-0034 8010-99-366-5444 8010-99-366-5444 8010-99-763-0243 8010-99-541-9576 8010-99-988-2715 8010-99-170-5097 8010-99-290-5925
Chugoku Paints (UK) Ltd GALV/ Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd UMEG Dunlop Precision Rubber Ltd (Dunlop Aerospace Ltd) Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU	ANITE 200 White UARD HS Grey UARD HS White CRYL FINISH MAC Canary BS381C 309 CRYL FINISH MAC Wedgewood Blue BS4800 18D43 CRYL FINISH MAC Dark Blue BS4800 18C39 CRYL FINISH MAC Mid Brunswick Green BS381C 226 CRYL FINISH MAC Azure Blue BS381C 104 UARD HS SILVER 0 ORANGE ELS WATER BASED EPOXY 48580 BS4800 00A01 ADUR 15570 LIGHT GREY 12430 CRYL ENAMEL 5810 Dark Blue BS4800 18C39 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 45150 White	See 4.3 See 4.3	495 g/l 158 g/l 158 g/l 86 g/l 86 g/l 86 g/l 86 g/l 86 g/l 70 g/l 86 g/l 158 g/l 86 g/l 158 g/l 158 g/l 150 g/l	8010-99-290-5829 8010-99-126-9478 8010-99-564-2409 8010-99-665-3660 8010-99-862-0034 8010-99-794-2129 8010-99-366-5444 8010-99-763-0243 8010-99-541-9576 8010-99-988-2715 8010-99-170-5097 8010-99-290-5925
Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd UMEG Dunlop Precision Rubber Ltd (Dunlop Aerospace Ltd) Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU	UARD HS Grey UARD HS White CRYL FINISH MAC Canary BS381C 309 CRYL FINISH MAC Wedgewood Blue BS4800 18D43 CRYL FINISH MAC Dark Blue BS4800 18C39 CRYL FINISH MAC Mid Brunswick Green BS381C 226 CRYL FINISH MAC Azure Blue BS381C 104 UARD HS SILVER 0 ORANGE ELS WATER BASED EPOXY 48580 BS4800 00A01 ADUR 15570 LIGHT GREY 12430 CRYL ENAMEL 5810 Dark Blue BS4800 18C39 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 45150 White	See 4.3 See 4.3	158 g/l 158 g/l 86 g/l 86 g/l 86 g/l 86 g/l 86 g/l 86 g/l No 25 g/l 430 g/l	8010-99-126-9478 8010-99-564-2409 8010-99-446-0554 8010-99-665-3660 8010-99-862-0034 8010-99-794-2129 8010-99-366-5444 8010-99-763-0243 8010-99-541-9576 8010-99-988-2715 8010-99-170-5097 8010-99-290-5925
Chugoku Paints (UK) Ltd UMEG Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd UMEG Dunlop Precision Rubber Ltd (Dunlop Aerospace Ltd) Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU	UARD HS White CRYL FINISH MAC Canary BS381C 309 CRYL FINISH MAC Wedgewood Blue BS4800 18D43 CRYL FINISH MAC Dark Blue BS4800 18C39 CRYL FINISH MAC Mid Brunswick Green BS381C 226 CRYL FINISH MAC Azure Blue BS381C 104 UARD HS SILVER 0 ORANGE ELS WATER BASED EPOXY 48580 BS4800 00A01 ADUR 15570 LIGHT GREY 12430 CRYL ENAMEL 5810 Dark Blue BS4800 18C39 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 45150 White	See 4.3 See 4.3	158 g/l 86 g/l 86 g/l 86 g/l 86 g/l 86 g/l 158 g/l No 25 g/l 430 g/l	8010-99-564-2409 8010-99-446-0554 8010-99-665-3660 8010-99-862-0034 8010-99-794-2129 8010-99-366-5444 8010-99-763-0243 8010-99-541-9576 8010-99-988-2715 8010-99-170-5097 8010-99-290-5925
Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd UMEG Dunlop Precision Rubber Ltd (Dunlop Aerospace Ltd) Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU	CRYL FINISH MAC Canary BS381C 309 CRYL FINISH MAC Wedgewood Blue BS4800 18D43 CRYL FINISH MAC Dark Blue BS4800 18C39 CRYL FINISH MAC Mid Brunswick Green BS381C 226 CRYL FINISH MAC Azure Blue BS381C 104 UARD HS SILVER 0 ORANGE ELS WATER BASED EPOXY 48580 BS4800 00A01 ADUR 15570 LIGHT GREY 12430 CRYL ENAMEL 5810 Dark Blue BS4800 18C39 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 45150 White	See 4.3 See 4.3	86 g/l 86 g/l 86 g/l 86 g/l 86 g/l 158 g/l No 25 g/l 430 g/l	8010-99-446-0554 8010-99-665-3660 8010-99-862-0034 8010-99-794-2129 8010-99-366-5444 8010-99-763-0243 8010-99-541-9576 8010-99-988-2715 8010-99-170-5097 8010-99-290-5925
Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd UMEG Dunlop Precision Rubber Ltd (Dunlop Aerospace Ltd) Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU	CRYL FINISH MAC Wedgewood Blue BS4800 18D43 CRYL FINISH MAC Dark Blue BS4800 18C39 CRYL FINISH MAC Mid Brunswick Green BS381C 226 CRYL FINISH MAC Azure Blue BS381C 104 UARD HS SILVER 0 ORANGE ELS WATER BASED EPOXY 48580 BS4800 00A01 ADUR 15570 LIGHT GREY 12430 CRYL ENAMEL 5810 Dark Blue BS4800 18C39 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 45150 White	See 4.3 See 4.3 See 4.3 See 4.3 See 4.3 See 4.3 See 4.3 See 4.3 See 4.3 See 4.3	86 g/l 86 g/l 86 g/l 86 g/l 158 g/l No 25 g/l 430 g/l	8010-99-665-3660 8010-99-862-0034 8010-99-794-2129 8010-99-366-5444 8010-99-763-0243 8010-99-541-9576 8010-99-988-2715 8010-99-170-5097 8010-99-290-5925
Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd UMEG Dunlop Precision Rubber Ltd (Dunlop Aerospace Ltd) Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU	CRYL FINISH MAC Dark Blue BS4800 18C39 CRYL FINISH MAC Mid Brunswick Green BS381C 226 CRYL FINISH MAC Azure Blue BS381C 104 UARD HS SILVER 0 ORANGE ELS WATER BASED EPOXY 48580 BS4800 00A01 ADUR 15570 LIGHT GREY 12430 CRYL ENAMEL 5810 Dark Blue BS4800 18C39 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 45150 White	See 4.3 See 4.3 See 4.3 See 4.3 See 4.3 See 4.3 See 4.3 See 4.3 See 4.3	86 g/l 86 g/l 86 g/l 158 g/l No 25 g/l 430 g/l	8010-99-862-0034 8010-99-794-2129 8010-99-366-5444 8010-99-763-0243 8010-99-541-9576 8010-99-988-2715 8010-99-170-5097 8010-99-290-5925
Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd UMEG Dunlop Precision Rubber Ltd (Dunlop Aerospace Ltd) Hempel Paints Limited HEMP Hempel Paints Limited HEMU	CRYL FINISH MAC Mid Brunswick Green BS381C 226 CRYL FINISH MAC Azure Blue BS381C 104 UARD HS SILVER 0 ORANGE ELS WATER BASED EPOXY 48580 BS4800 00A01 ADUR 15570 LIGHT GREY 12430 CRYL ENAMEL 5810 Dark Blue BS4800 18C39 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 45150 White	See 4.3 See 4.3 See 4.3 See 4.3 See 4.3 See 4.3 See 4.3 See 4.3	86 g/l 86 g/l 158 g/l No 25 g/l 430 g/l 150 g/l	8010-99-794-2129 8010-99-366-5444 8010-99-763-0243 8010-99-541-9576 8010-99-988-2715 8010-99-170-5097 8010-99-290-5925
Chugoku Paints (UK) Ltd CAMA Chugoku Paints (UK) Ltd UMEG Dunlop Precision Rubber Ltd (Dunlop Aerospace Ltd) Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU	CRYL FINISH MAC Azure Blue BS381C 104 UARD HS SILVER 0 ORANGE  ELS WATER BASED EPOXY 48580 BS4800 00A01 ADUR 15570 LIGHT GREY 12430 CRYL ENAMEL 5810 Dark Blue BS4800 18C39 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 45150 White	See 4.3 See 4.3 See 4.3 See 4.3 See 4.3 See 4.3 See 4.3	86 g/l 158 g/l No 25 g/l 430 g/l 150 g/l	8010-99-366-5444 8010-99-763-0243 8010-99-541-9576 8010-99-988-2715 8010-99-170-5097 8010-99-290-5925
Chugoku Paints (UK) Ltd UMEG Dunlop Precision Rubber Ltd (Dunlop Aerospace Ltd) Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU	UARD HS SILVER 0 ORANGE ELS WATER BASED EPOXY 48580 BS4800 00A01 ADUR 15570 LIGHT GREY 12430 CRYL ENAMEL 5810 Dark Blue BS4800 18C39 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 45150 White	See 4.3 See 4.3 See 4.3 See 4.3 See 4.3 See 4.3	158 g/l No 25 g/l 430 g/l 150 g/l	8010-99-763-0243 8010-99-541-9576 8010-99-988-2715 8010-99-170-5097 8010-99-290-5925
Dunlop Precision Rubber Ltd (Dunlop Aerospace Ltd) Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU	0 ORANGE  ELS WATER BASED EPOXY 48580 BS4800 00A01  ADUR 15570 LIGHT GREY 12430  CRYL ENAMEL 5810 Dark Blue BS4800 18C39  CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43  CRYL ENAMEL 5810 Canary BS381C 309  ADUR 45150 White	See 4.3 See 4.3 See 4.3 See 4.3 See 4.3 See 4.3	No 25 g/l 430 g/l 150 g/l	8010-99-541-9576 8010-99-988-2715 8010-99-170-5097 8010-99-290-5925
(Dunlop Aerospace Ltd)  Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU	ELS WATER BASED EPOXY 48580 BS4800 00A01 ADUR 15570 LIGHT GREY 12430 CRYL ENAMEL 5810 Dark Blue BS4800 18C39 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 45150 White	See 4.3 See 4.3 See 4.3 See 4.3 See 4.3	25 g/l 430 g/l 150 g/l	8010-99-988-2715 8010-99-170-5097 8010-99-290-5925
Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMU Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU	ADUR 15570 LIGHT GREY 12430 CRYL ENAMEL 5810 Dark Blue BS4800 18C39 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 45150 White	See 4.3 See 4.3 See 4.3 See 4.3	430 g/l 150 g/l	8010-99-170-5097 8010-99-290-5925
Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMU Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU	CRYL ENAMEL 5810 Dark Blue BS4800 18C39 CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 4515o White	See 4.3 See 4.3 See 4.3	150 g/l	8010-99-290-5925
Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU	CRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43 CRYL ENAMEL 5810 Canary BS381C 309 ADUR 4515o White	See 4.3 See 4.3 See 4.3		8010-99-290-5925
Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU	CRYL ENAMEL 5810 Canary BS381C 309 ADUR 4515o White	See 4.3	150 g/l	9010 00 217 6225
Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMU	CRYL ENAMEL 5810 Canary BS381C 309 ADUR 4515o White	See 4.3		8010-99-317-6235
Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMU Hempel Paints Limited HEMU Hempel Paints Limited HEMP Weath Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMU	ADUR 4515o White		150 g/l	8010-99-858-1263
Hempel Paints Limited HEMU Hempel Paints Limited HEMP Weath Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMU		See 4.3	180 g/l	8010-99-411-0494
Hempel Paints Limited HEMP Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMP Weath Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMU		See 4.3	150 g/l	8010-99-299-0228
Hempel Paints Limited HEMU Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMP Weath Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMU	ELS WATER BASED EPOXY 48580 BS4800 14C39 (Green)	See 4.3	25 g/l	8010-99-279-8221
Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMP Weath Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMU	CRYL PRIMER 1810	See 4.3	200 g/l	8010-99-909-6026
Hempel Paints Limited HEMP Hempel Paints Limited HEMP Hempel Paints Limited HEMP Weath Hempel Paints Limited HEMP Hempel Paints Limited HEMU	ADUR 1555 0	See 4.3	515 g/l	8010-99-870-0653
Hempel Paints Limited HEMP Hempel Paints Limited HEMP Weath Hempel Paints Limited HEMP Hempel Paints Limited HEMU	ELS WATER BASED EPOXY 48580 BS4800 14C39 (Green)	See 4.3	25 g/l	8010-99-279-8221
Hempel Paints Limited Weath Hempel Paints Limited HEMP Hempel Paints Limited HEMU	ADUR 45150	See 4.3	180 g/l	8010-99-702-5502
Hempel Paints Limited HEMP Hempel Paints Limited HEMU	ELS WATER BASED EPOXY 48580 BS381C 676 (Light erwork Grey)	See 4.3	25 g/l	8010-99-976-9118
Hempel Paints Limited HEMU Hempel Paints Limited HEMU Hempel Paints Limited HEMU Hempel Paints Limited HEMU	ELS WATER BASED EPOXY 48580 Black	See 4.3	25 g/l	8010-99-864-5046
Hempel Paints Limited HEMU Hempel Paints Limited HEMU Hempel Paints Limited HEMU	CRYL ENAMEL 5810 Lt Brunswick Green BS381C 225	See 4.3	150 g/l	8010-99-831-8959
Hempel Paints Limited HEMU Hempel Paints Limited HEMU	CRYL ENAMEL 5810 Azure Blue BS381C 104	See 4.3	150 g/l	8010-99-382-4025
Hempel Paints Limited HEMU	CRYL ENAMEL 5810 Mid Brunswick Green BS381C 226	See 4.3	150 g/l	8010-99-162-2531
	CRYL ENAMEL 5810 BS4800 00A01	See 4.3	150 g/l	8010-99-660-9288
	CRYL ENAMEL 5810 Signal Red BS381C 537	See 4.3	150 g/l	8010-99-250-8046
	CRYL TI-COAT 1820 0	See 4.3	118 g/l	8010-99-199-2908
	ADUR 1555 0 Off White 1163	See 4.3	515 g/l	8010-99-700-4191
	CRYL TI-COAT 1820 0 Red 50710	See 4.3	118 g/l	8010-99-199-2908
•	DUR 1850 Grey 12170	See 4.3	85 g/l	8010-99-867-8090
	ADUR 1555 0 Off White 1163	See 4.3	515 g/l	8010-99-870-0653
	ADUR 45150 Red 50630	See 4.3	180 g/l	8010-99-535-5832
<u> </u>		See 4.3	150 g/l	8010-99-149-2439
•	CRYLENAMEL 5810 BS381C 676 (Light Weatherwork Grev)	See 4.3	200 g/l	8010-99-909-6026
	CRYL ENAMEL 5810 BS381C 676 (Light Weatherwork Grey)	000 4.3	515 g/l	8010-99-700-4191
<u> </u>	CRYL PRIMER 1810	Saa 1 3		8010-99-175-1334
	CRYL PRIMER 1810 ADUR 1555 0	See 4.3		10010-99-179-1334
International Paint Ltd INTER	CRYL PRIMER 1810	See 4.3 See 4.3	150 g/l 166 g/l	8010-99-337-6056

Supplier	Material	BR	VOC	NSN
Сарриег	material	Class	Compliant	11011
International Paint Ltd	INTERGARD 1735 WB Dark Sea Grey BS381C 640	See 4.3	132 g/l	8010-99-702-0607
International Paint Ltd	INTERCRYL 506 GREY WPA300	See 4.3	120 g/l	8010-99-147-1269
International Paint Ltd	INTERCRYL 700 White WXB000	See 4.3	135 g/l	8010-99-
International Paint Ltd	INTERCRYL 700 Yellow RAL 1018	See 4.3	135 g/l	8010-99-774-1224
International Paint Ltd	INTERGARD 1735 WB Green BS4800 14C39	See 4.3	132 g/l	8010-99-483-1994
International Paint Ltd	INTERGARD 740 ECY999/A Black	See 4.3	420 g/l	8010-99-285-3824
Jotun Paints (Europe) Limited	PRIMASTIC UNIVERSAL MD	See 4.3	240 g/l	8010-99-509-7172
Jotun Paints (Europe) Limited	WATERFINE PRIMER Light Grey	See 4.3	50 g/l	8010-99-462-9708
Jotun Paints (Europe) Limited	WATERFINE TOPCOAT Signal Red BS381C 537	See 4.3	197 g/l	8010-99-921-4654
Jotun Paints (Europe) Limited	WATERFINE TOPCOAT Lt Brunswick Green BS381C 225	See 4.3	197 g/l	8010-99-131-6457
Jotun Paints (Europe) Limited	WATERFINE TOPCOAT White	See 4.3	197 g/l	8010-99-372-9140
Jotun Paints (Europe) Limited	WATERFINE TOPCOAT Wedgwood Blue BS4800 18D43	See 4.3	197 g/l	8010-99-212-5714
Jotun Paints (Europe) Limited	WATERFINE TOPCOAT Azure Blue BS381C 104	See 4.3	197 g/l	8010-99-186-9127
Jotun Paints (Europe) Limited	WATERFINE TOPCOAT Dark Blue BS4800 18C39	See 4.3	197 g/l	8010-99-347-9130
Jotun Paints (Europe) Limited	WATERFINE TOPCOAT Lt Weatherwork Grey BS381C 676	See 4.3	197 g/l	8010-99-989-6214
Jotun Paints (Europe) Limited	WATERFINE TOPCOAT CANARY BS381C 309	See 4.3	197 g/l	8010-99-352-4369
Jotun Paints (Europe) Limited	WATERFINE TOPCOAT Black	See 4.3	197 g/l	8010-99-877-1641
Jotun Paints (Europe) Limited	WATERFINE TOPCOAT Mid Brunswick Green BS381C 226	See 4.3	197 g/l	8010-99-873-4271
Jotun Paints (Europe) Limited	WATERFINE TOPCOAT Ash Grey BS4800 00A01	See 4.3	197 g/l	8010-99-272-2784
Leighs Paints	ENVIROGARD M770 Ash Grey BS4800 00A01	See 4.3	128 g/l	8010-99-517-5228
Leighs Paints	ENVIROGARD M770 Lt Brunswick Green BS381C 225	See 4.3	128 g/l	8010-99-313-9445
Leighs Paints	EPIGRIP H795	See 4.3	575 g/l	8010-99-225-0195
Leighs Paints	EPIGRIP M251 PRIMER	See 4.3	390 g/l	8010-99-301-1924
Leighs Paints	EPIGRIP M902 Aluminium	See 4.3	219 g/l	8010-99-421-0972
Leighs Paints	BIOGARD M630V2 Green BS4800 14C39	See 4.3	0 g/l	8010-99-255-5237
Leighs Paints	ENVIROGARD M770 Signal Red BS381C 537	See 4.3	128 g/l	8010-99-225-7155
Leighs Paints	ENVIROGARD M770 White	See 4.3	128 g/l	8010-99-231-3852
Leighs Paints	BIOGARD M630V2 Green BS4800 14-C-39	See 4.3	0 g/l	8010-99-255-5237
Leighs Paints	ENVIROGARD M770 Black	See 4.3	128 g/l	8010-99-768-1426
Leighs Paints	EPIGRIP L524 Aluminium	See 4.3	296 g/l	8010-99-216-0021
Leighs Paints	ENVIROGARD M770 Canary BS381C 309	See 4.3	128 g/l	8010-99-726-4136
Leighs Paints	ENVIROGARD M770 Dark Blue BS4800 18C39	See 4.3	128 g/l	8010-99-723-3650
Leighs Paints	ENVIROGARD M770 Azure Blue BS381C 104	See 4.3	128 g/l	8010-99-878-8150
Leighs Paints	EPIGRIP L524 White	See 4.3	296 g/l	8010-99-564-2934
Leighs Paints	ENVIROGARD M770 Mid Brunswick Green BS381C 226	See 4.3	128 g/l	8010-99-862-5170
Leighs Paints	BIOGARD M630V2 White	See 4.3	0 g/l	8010-99-313-4440
Leighs Paints	ENVIROGARD M770 Grey BS381C 676	See 4.3	128 g/l	8010-99-833-4765
Leighs Paints	BIOGARD M630V2 Black	See 4.3	0 g/l	8010-99-739-8402
Leighs Paints	BIOGARD M630V2 Grey BS381C 676	See 4.3	0 g/l	8010-99-131-6908
Leighs Paints	ENVIROGARD M770 Wedgewood Blue BS4800 18D43	See 4.3	128 g/l	8010-99-723-3651
Maker Coating Systems Ltd	SIGMA AQUACOVER 45 7250 Black	See 4.3	17g/l	8010-99-500-7412
Maker Coating Systems Ltd	SIGMA AQUACOVER 45 7250 Mid Brunswick Green BS381C 226	See 4.3	17g/l	8010-99-269-1301
Maker Coating Systems Ltd	SIGMA AQUACOVER 45 7250 Wedgwood Blue BS4800 18D43	See 4.3	17g/l	8010-99-471-2071
Maker Coating Systems Ltd	SIGMA AQUACOVER 45 7250 Azure Blue BS381C 104	See 4.3	17g/l	8010-99-863-5457
Maker Coating Systems Ltd	SIGMA AQUACOVER 45 7250 Canary BS381C 309	See 4.3	17g/l	8010-99-182-2670
Maker Coating Systems Ltd	SIGMA AQUACOVER 45 7250 Dark Blue BS4800 18C39	See 4.3	17g/l	8010-99-957-7697
Maker Coating Systems Ltd	SIGMA AQUACOVER 25 7150 Buff	See 4.3	37g/l	8010-99-321-6318
Maker Coating Systems Ltd	SIGMA AQUACOVER 45 7250 Lt Brunswick Green BS381C 225	See 4.3	17g/l	8010-99-338-4734
Maker Coating Systems Ltd	SIGMA AQUACOVER 45 7250 Signal Red BS381C 537	See 4.3	17g/l	8010-99-880-0100
Maker Coating Systems Ltd	SIGMA AQUACOVER 45 7250 White	See 4.3	17g/l	8010-99-225-7360
Maker Coating Systems Ltd	AMERCOAT 300A White	See 4.3	0 g/l	8010-17-108-8249
Maker Coating Systems Ltd	AMERLOCK 400C Grey	See 4.3	106 g/l	8010-99-974-7400
Maker Coating Systems Ltd	AMERLOCK 400C Black	See 4.3	106 g/l	8010-17-106-6001
Maker Coating Systems Ltd	CORROLESS EPF Buff	See 4.3	80 g/l	8010-25-150-0972
Maker Coating Systems Ltd	CORROLESS EPF Black	See 4.3	80 g/l	8010-99-212-7555
Maker Coating Systems Ltd	CORROLESS RF 35 Off White	See 4.3	93 g/l	8010-25-150-0973
Maker Coating Systems Ltd	CORROLESS RF 35	See 4.3	93 g/l	8010-99-337-0778
	1	1	3	1

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#### **ANNEX K**

### AMENDMENTS TO BR 3939 Issue 1: September 2006

## Warpaint 27 September 2008

The following amendments apply to the tables in Section 3 of BR3939

Item 0305 Additional Criteria for Specific Warship and Submarine Areas:

15	Adhesion	700 psi after 7 days air drying	BS EN ISO 4624 Hydraulic pull off testing.
16	Adhesion	Greater than 1500 psi on system/substrate interface	BS EN ISO 4624 Hydraulic test equipment or similar.
34	Resistance to humidity	Single coat, no blistering, corrosion or other signs of breakdown	BS EN ISO 6270-1for 10 days, 7 days after application
51	Gloss	>60 gloss units	BS EN ISO 2813, 60° geometry gloss meter
57	Resistance to humidity	Single coat, no blistering, corrosion or other signs of breakdown	BS 3900: F9 for 10 days, 7 days after application BS EN ISO 6270-1
58	Contamination Resistance	No defects	BS 6920

#### Item 0306 Paint Identification Characteristics

1	Density Range	Declared in IC	BS EN ISO 2811-1
2	Viscosity Range (Not powder coatings)	Declared in IC	BS EN ISO 2884 or declared method
4	Opacity	Declared in IC	BS EN ISO 2814

#### Warpaint 28 March 2009

1 Front Page replace (TES-SSG/170/24/10/1) by (DES SE Sea-MT/170/24/10/1)

## 2 Page vii Introduction

Replace 1. with "Ministry of Defence (MOD), Defence Equipment & Support (DE&S), Safety Engineering (SE), Sea Systems Directorate, Materials Technology (DES SE Sea-MT5) sponsors this Book of Reference (BR)."

# 3. Page vii Related Documents

Replace 9c with

c. "Warpaint"

MOD - DES SE Sea-MT5, Elm 1c, #4314 Abbey Wood South. Bristol BS34 8JH

4. Page viii Precautions

#### **ANNEX K**

#### Replace items 14-16 with

- 14 Shipyards applying or removing coatings containing tributyltin or triphenyltin now require authorisation from the Environment Agency
- 15 It should be noted that HMIP and the National River Authority (NRA) were in England and Wales, subsumed into a new "Environmental Agency (DEFRA)". Similar arrangements apply in Scotland, where the appropriate authority is the Scotlish Environment Protection Agency.
- 16 The appropriate Authority in Northern Ireland is, The Northern Ireland Environment Agency (NIEA)

#### 5. Section1 Scope

Replace all reference to TES-SSG-MT5 by DES SE Sea-MT5

# 6. Section 2 Policy

Replace all reference to TES-SSG-MT5 by DES SE Sea-MT5

#### 7. Section 3 Materials

Replace all reference to TES-SSG-MT5 by DES SE Sea-MT5

Add the following to table 0307 - Specified Whole Ship Specification (WSS) Areas:

:

Warpaint Designated Areas – Submarine Systems (SS)				
Warpaint Submarine Area	Description			
S27	Paint system suitable for application to Seawater tanks			

## 8. Section 4 PREPARATION OF SURFACES

Replace all reference to TES-SSG-MT5 by DES SE Sea-MT5

# 9. Section 5 PAINTING OF UNDERWATER HULLS OF SURFACE SHIPS AND SUBMARINES

Replace all reference to TES-SSG-MT5 by DES SE Sea-MT5
Replace all reference to TES-MSG-UWET by DES SANMO-UWESO1-SPEC
Replace all reference to TES-SSG-ShipHydro by DES SE Sea-ShipHydro

#### 10. Section 10 Tanks

#### **ANNEX K**

Replace all reference to TES-SSG-MT5 by DES SE Sea-MT5

1033 Ballast Tanks & Sewage Tanks:

Replace S16 by S27

1042 Other Submarine areas:

Replace S1 by S27

# Warpaint 29 September 2009

1. Page vii Related Documents

Replace 9c with

c. "Warpaint"

MOD - DES SE Sea-MT5, Elm 1c, #4134 Abbey Wood South. Bristol BS34 8JH

# Warpaint 30 March 2010

- 1. Section 3 item 0307 Specified Whole Ship Specification (WSS) Areas. Amend Warpaint Ship Area D to read:
  - Foul Release underwater hull coatings, which are tin free and have the ability to achieve 5 years' active life.

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