



Safety Engineering

WARPAINT ISSUE 34 March 2012



Defence Equipment & Support

UNCLASSIFIED



MINISTRY OF DEFENCE

INTENTIONALLY BLANK



INTENTIONALLY BLANK

INDEX

ITEM	Page
1. INTRODUCTION	2
2. AMMENDMENTS TO ISSUE 33	3
3. VOC COMPLIANT COATING SYSTEMS	3
4. SUBMARINE SPECIFICATIONS	4
5. WHOLE SHIP SPECIFICATIONS	5
6. SPECIALIST COATINGS & PAINT REMOVERS	6
7. QUERIES ON PAINTING AND PRESERVATION	12
ANNEXE A – CHUGOKU PAINTS (UK) LTD	A-1
ANNEXE B – HEMPEL UK LTD	B-1
ANNEXE C – INTERNATIONAL PAINT LTD	C-1
ANNEXE D – JOTUN PAINTS (EUROPE) LTD	D-1
ANNEXE E – MAKER COATING SYSTEMS LTD	E-1
ANNEXE F – PPG PROTECTIVE & MARINE COATINGS	F-1
ANNEXE G – LEIGHS PAINTS	G-1
ANNEXE H - WHOLE SHIP STOCK NUMBERS	H-1
ANNEXE J – SUBMARINE SYSTEMS	J-1

INTENTIONALLY BLANK



INTENTIONALLY BLANK

The information on acceptable paint systems/coatings, given in this publication, updates BR3939 Issue 2 - November 2011.

1. INTRODUCTION

- 1.1 After fifteen years as the editor of Warpaint this will be my last issue. At this moment in time I cannot predict what the long term future is for this important and contractual document. Nor can I currently advise on the details of my replacement. It is envisaged that my post will eventually be filled; however, realistically and practically this is going to take some time. Therefore in the interim, all I can suggest to readers is that if they have any questions on approved coatings or paint systems then in the short term they should contact their MOD sponsor or the relevant MOD Platform Project Group. I would like to thank all the previous and current contributors to Warpaint for the help and assistance given to me in endeavouring to provide concise and accurate information and I wish everyone well for the future.
- 1.2 Warpaint *remains* the main guidance document of acceptable paint coatings for in-service and new-build Royal Naval Vessels. However, not all approved coatings are necessarily 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 the current issue of Warpaint, confirmation of acceptance must be obtained.
- 1.3 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.
- 1.4 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 manufactured by Chugoku Paints (UK) Ltd have been ordered, simply because they are listed first (alphabetically) in the annexes.
- 1.5 Due to the high demand for Warpaint, hard copies are no longer available. The easiest way to obtain an e-copy is via the internet or intranet and the DE&S Sea Systems Group website. From here it can be easily downloaded. Information on accessing these websites is detailed at 1.8 and 1.8.1
- 1.6 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.

1.7 This issue should be a useful addition to the data required by projects for ship/submarine build or maintenance.

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

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

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

<http://defenceintranet.diiweb.r.mil.uk/DefenceIntranet/Library/CivilianAndJointService/BrowseDocumentCategories/ResearchScienceAndTechnology/MaterialsScienceAndTechnology/CoatingsColourantsAndFinishes/Warpaint.htm>

1.8.2 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: www.shipshapern.com along with a full copy and the current issue (2) 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:* DESSESea-ShipDes2a@mod.uk

**Please note this post and title is due to change shortly under DES reorganisation with the new post title of; DES Ships MPS-SDA-SI-5a and the email address being DESShipsMPS-SDA-SI-5a@mod.uk*

2. AMMENDMENTS TO ISSUE 33

2.1 Annexe G, Section V; Hydrogard H20V2 should read Waterline P300

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. They will then be required on request, to provide the Institute of Naval Medicine (INM), with full product 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 MOD(N) maximum VOC target levels are shown in the following table 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
(vi)	Anti-Fouling	400
(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	300
(xi)	Marine 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.

New-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.

3.4 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 MOD(N) 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 for approval and inclusion in Warpaint. In this instance data will be required 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 MOD(N) 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 2 November 2011). 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.

- 4.3 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 [*DESSESea-SM-Atm1@mod.uk](mailto:DESSESea-SM-Atm1@mod.uk) at MOD Abbey Wood South, Bristol. Telephone: 030679 35045.

**Please note this post title is due to change shortly under DES reorganisation with the new post title of; DES NAG-SMAtm1 email: DESNAG-SMAtm1@mod.uk*

- 4.4 Once a material toxicity hazard assessment has been conducted, clearance for use must be sought from DESSMIS-A-WS2a1@mod.uk 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 (i.e. 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 the relevant Platform Project Group. 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.
- 5.3 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 Tables
- 5.4.1 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.

5.4.3 Items with a '?' appearing in the boxes, indicate that manufacturer/supplier information is awaited.

5.4.4 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 LCUs and LCVPs

5.5.1 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
<u>ANTIFOULING FOR "ARCHER" CLASS BOATS & YACHTS</u> SUPERSPEED 52	Anti-Fouling	411		N/A
<u>RUDDERS, STABILISERS & 'A' FRAMES</u> (i) Reblast LIMPETITE PRC (ii) Touch-up Repair LIMPETITE A3	Elastomer Elastomer	0 433		N/A N/A
<u>HULL (Underwater-Applied Coatings) GENERAL REPAIR</u> BIOFIX 561 LT Black CHEMI-TECH UW EPIGRIP M216 JML 2000	Epoxy Epoxy Epoxy Epoxy	0 0 0 0	99-133-9985 99-799-8831	N/A N/A N/A N/A

Specialist Coatings & Paint Removers - continued

SPECIALIST SYSTEMS/MATERIALS	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
<u>HULL - LINK COATS FOR FOUL RELEASE PAINT SYSTEMS</u>				
<u>Hempel Paints Ltd</u>				
HEMPASIL NEXUS X-Seal 27600	Silicone	400		N/A
<u>International Paints Ltd</u>				
Link Coat for INTERSLEEK 737: INTERSLEEK 7180	Silicone	376		N/A
<u>FLIGHTDECK MARKINGS</u>				
<u>Chugoku Paints (UK) Ltd</u>				
521E0020 Type 1 WHITE	Epoxy	374	99-541-9583	N/A
521E0013 Type 1 BLACK	Epoxy	374	99-543-0790	N/A
521E2947 Type 1 RED	Epoxy	374	99-543-0793	N/A
521E0013 Type 1 GREEN	Epoxy	374	99-5430-791	N/A
<u>Hempel Paints Ltd</u>				
HEMPELS DECK MARKING 453GB WHITE	Epoxy	347	99-323-1118	N/A
HEMPELS DECK MARKING 453GB BLACK	Epoxy	347	99-351-4222	N/A
HEMPELS DECK MARKING 453GB RED BS381C 537	Epoxy	347	99-724-9085	N/A
HEMPELS DECK MARKING 453GB GREEN BS381C 225	Epoxy	347	99-986-6762	N/A
<u>International Paints Ltd</u>				
INTERSHIELD 852 WHITE	Epoxy	219	99-274-4430	N/A
INTERSHIELD 852 BLACK	Epoxy	219	99-250-1864	N/A
INTERSHIELD 852 RED	Epoxy	219	99-666-9269	N/A
INTERSHIELD 852 GREEN	Epoxy	219	99-871-6360	N/A
<u>Leighs Paints</u>				
EPIDEK M377 WHITE	Epoxy	330	99-777-8690	N/A
EPIDEK M377 BLACK	Epoxy	330	99-777-8692	N/A
EPIDEK M377 GREEN	Epoxy	330	99-777-8691	N/A
<u>INSTRUMENTS & TELECOMMUNICATIONS EQUIPMENT</u>				
<u>Trimite</u>				
Q55X Light Admiralty Grey BS381C 697	Synthetic	491	99-224-9624	BLI

Specialist Coatings & Paint Removers - continued

SPECIALIST SYSTEMS/MATERIALS	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
WOODEN FLIGHT DECKS & ASSOCIATED STEELWORK <i>Note adjacent steel decks to follow Flight Decks paint system</i>				
Hempel Paints Ltd				
HEMPADUR 4588 MIO 1243	Epoxy	198	99-479-5449	N/A
HEMPADUR 457GB Dark Sea Grey BS381C 640	Epoxy	198	99-831-0343	N/A
<u>Gloss for Deck Margins:</u> HEMPEL'S NON SKID 457GA	Epoxy	198	99-879-5150	N/A
Leighs Paints				
METAGARD L574 Red Oxide	Epoxy	594	99-895-9894	N/A
EPIGRIP M339 Extra Dark Sea Grey BS381C 640	Epoxy	250	99-215-4495	N/A
<u>Gloss for Deck Margins:</u> EPIGRIP M262	Epoxy	354	99-133-8713	N/A
International Paints				
INTERSHIELD 300 (thinned 10%)	Epoxy	386		N/A
INTERSHIELD 300	Epoxy	386		N/A
INTERSHIELD 851	Epoxy	169	99-391-0953	N/A
<u>Gloss for Deck Margins:</u> INTERGARD 740	Epoxy	420	99-182-2627	N/A
RAC COATING SYSTEM				
INTERGARD 3112 SYSTEM as specified in DEF STAN 08-205				N/A
WEATHERWORK SYSTEMS OVER RAC				
Chugoku Paints Ltd				
CAMLAC UNDERCOAT	Alkyd	380		N/A
CAMSIL FINISH	WB Silicone Alkyd	116	99-327-9058	N/A
Hempel Paints Ltd				
HEMUDUR 1850	Water-Based Epoxy	85	99-876-8090	N/A
HEMUCRYL ENAMEL 5810	Water-Based Acrylic	150	99-149-2439	N/A
International Paint Ltd				
INTERGARD 5000	Epoxy	179	99-000-5256	N/A
INTERFINE 691HS	Epoxy Acrylic	409	99-864-5322	N/A
Jotun Paints (Europe) Limited				
JOTAMASTIC 80	Epoxy	145		N/A
JOTAPROOF TOPCOAT	Epoxy Acrylic	310	99-519-2253	N/A
Leighs Paints				
EPIGRIP C425V2	Epoxy	200	99-126-6377	N/A
EPIGRIP C750V2	Epoxy Acrylic	364	99-212-2175	N/A
Maker Coating Systems Ltd				
AMERLOCK 400C	Epoxy	106	99-974-7400	N/A
SIGMADUR 540	Epoxy Acrylic	411		N/A

Specialist Coatings & Paint Removers - continued

SPECIALIST SYSTEMS/MATERIALS	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
<u>EMERGENCY REPAIR OF FRESH WATER TANKS</u> <u>Hempel Paints Ltd</u> Hempel's TAPECRETE 6818	Cementitious Acrylic	0	99-302-2646	N/A
<u>GALVANISED STEEL & ZINC METAL SPRAY (REPAIR)</u> <u>Maker Coatings</u> ZINGA M <u>Hempel Paints Ltd</u> HEMUDUR ZINC 18560 or HEMPEL'S ZINC PRIMER 16490 <u>International Paints Ltd</u> INTERZINC 22 or INTERZINC 72 <u>PPG Protective & Marine Coatings</u> SIGMAZINC 19 <u>Leighs Paints</u> EPIGRIP J984	Polystyrene Water-Based Epoxy Zinc Phenoxo Zinc Silicate Zinc Epoxy Zinc Epoxy Zinc Epoxy	539 60 590 470 410 584 331	13-113-7072 99-152-6131	BLI B (CI, CF) B LI
<u>VARNISHED WOODWORK</u> <u>Chugoku Paints Ltd</u> SPAR VARNISH <u>Hempel Paints Ltd</u> HEMPEL'S MARINE VARNISH 022GB <u>International Paint Ltd</u> INTERLAC 678 <u>Jotun Paints (Europe) Limited</u> SPONTAN VARNISH <u>PPG Protective & Marine Coatings</u> SIGMAVAR GLOSS 8103	Varnish Alkyd Alkyd Urethane Alkyd Phenolic	433 430 373 470 393	99-224-5783 99-328-9646 99-161-6220	BLI BLI
<u>HEAT RESISTANT COATINGS (below 175 °C)</u> <u>PPG Protective & Marine Coatings</u> SIGMATHERM 175	Modified Alkyd	561		BLI

Specialist Coatings & Paint Removers - continued

SPECIALIST SYSTEMS/MATERIALS	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
<u>HEAT RESISTANT COATINGS (above 250 °C)</u> <u>Hempel Paints Ltd</u> HEMPEL'S GALVOSIL 15700 <u>International Paint Ltd</u> INTERTHERM 890 <u>PPG Protective & Marine Coatings</u> SIGMATHERM 500	Zinc Silicate Zinc Silicate Modified Alkyd	435 305 600	99-593-8923 	BLI BLI BLI
<u>HEAT RESISTANT COATINGS (above 400 °C)</u> <u>Hempel Paints Ltd</u> HEMPEL'S SILICONE ALUMINIUM 56910 <u>International Paint Ltd</u> INTERTHERM 50 <u>PPG Protective & Marine Coatings</u> SIGMATHERM 500	Polysiloxane Silicone Modified Alkyd	585 495 600	 99-257-1455 	 BLI BLI
<u>SYSTEM FOR COATING NATURAL RUBBER MOUNTS</u> <i>Applied by Mount supplier not to be touched up once fitted</i> <u>Dunlop Precision Rubber Ltd</u> DUNLOP NPL 100 <u>Maker Coating Systems Ltd</u> GUMMIPAINT - Orange	Twin Pack Single Pack	 	99-541-9576 	B BLI
<u>PAINT REMOVER</u> <u>Cirrus Systems Ltd</u> REMOVAL 510 (Formally NAPIER-PMA) <u>N A Robson Ltd</u> BACK TO NATURE VIII <u>International Paint Ltd</u> INTERPLUS 634 <u>Maker Coating Systems Ltd</u> SEA TO SKY SPC-203	Biodegradable Biodegradable Biodegradable Biodegradable	N/A N/A N/A N/A	99-871-5945 99-361-6273 99-551-8994 20-003-3432	 BLI CI CI

Specialist Coatings & Paint Removers - continued

SPECIALIST SYSTEMS/MATERIALS	Generic Type	VOC gms per ltr	NATO Stock Number	BR 1326
<u>UNIQUE IMMERSED AREAS - PUMPS ETC</u>				
<u>Corrocoat Limited</u>				
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 DESSESea-ShipDes2a@mod.uk alternatively telephone 030679 39673. (Rust removers should only be used on un-painted surfaces; they are not a part of any approved paint system)

**Please note: this post and title will change under DES reorganisation with the new post title of; DES Ships MPS-SDA-SI-5a email: DESShipsMPS-SDA-SI-5a@mod.uk*

- 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 2057631
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
Q55X	Trimite	Tel 01895 251234
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 Any questions on approved coatings or paint systems should, in the short term, be directed to MOD sponsors or the relevant MOD Platform Project Group. Likewise all matters regarding approved materials, NATO stock numbers, and MOD(N) Paint Policy. Inevitably the reorganisation of the DES SE Sea-MT5 post will have an impact and create a backlog of queries; these will no doubt be answered as expediently and swiftly as possible.

7.2 MIXING OF PAINT SYSTEMS & USE OF CORROLESS QDR PRIMER

- 7.2.1 The mixing of different suppliers coatings in any given paint system is prohibited. If it becomes essential then it will only be permitted with the written approval of the relevant MOD Platform Project Group.
- 7.2.2 ***Corroless QDR primer is only to be used for emergency repairs***, for example; when a vessel has to sail and welding of items has only just been completed or; there is insufficient time to apply the full Warpaint specified paint system. Not more than 2 x 5litre packs are to be carried onboard and general usage is forbidden.

INTENTIONALLY BLANK



ANNEXE A
WHOLE SHIP SPECIFICATION
Proposed by

CHUGOKU PAINTS (UK) 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 ltr	NATO Stock Number
A. UNDERWATER PRIMER (Re-blast) ~							
(i) <u>Standard</u> : UMEGUARD HS SILVER*	1	150	5.93	20 hrs	30 days	158	99-264-0145
(ii) <u>Tie-coat</u> : SILVAX SQ K	1	50	6.0	8 hrs	#	620	99-264-0145
B. UNDERWATER PRIMER (Touch Up at Docking)							
(i) <u>Standard</u> : UMEGUARD HS SILVER*	1	150	5.93	20 hrs	30 days	158	99-264-0145
(ii) <u>Tie-coat</u> : SILVAX SQ K	1	50	6.0	8 hrs	#	620	
C. ANTIFOULING (Tin Free - 5yr life)							
SEA GRANDPRIX 500	3	125	3.76	5 hrs	#	484	
D. ANTIFOULING (FOUL RELEASE 5+ yr life)							
E. ANTIFOULING (Tin Free 3+ yr life)							
TFA 10	2	125	5.44	5 hrs	#	383	
F. BOOTTOP ANTIFOULING (Tin Free)							
SEAJET 33	2	125	3.52	5 hrs	#	485	
G. A/W HULL & SUPERSTRUCTURE PRIMER (Reblast)							
UMEGUARD HS SILVER*	1	125	7.40	20 hrs	30 days	158	99-264-0145
H. A/W HULL & SUPERSTRUCTURE PRIMER (Touch Up)							
(i) <u>Standard</u> : UMEGUARD HS SILVER*	1	125	7.40	20 hrs	30 days	158	99-264-0145
(ii) <u>Alternative</u> : CAMACRYL ZP PRIMER	2	60	6.66	6 hrs	#	50	99-125-9909
J. A/W HULL & SUPERSTRUCTURE (Reblast)							
(i) <u>Standard</u> : CAMSIL WB GF WATERBASED FINISH Light Weatherwork GreyBS381C 676	2	25	14.40	16 hrs	#	116	99-327-9058
(ii) <u>Alternative</u> : HD WEATHERWORK FINISH Light Weatherwork GreyBS381C 676	1	40	11.80	16 hrs	#	400	
(iii) <u>Tie-coat (if required)</u> : Weatherwork U/C	1	50	11.40	16 hrs	#	380	
(iv) <u>Sealer for RASH</u>							

ANNEXE A
WHOLE SHIP SPECIFICATION
Proposed by

CHUGOKU PAINTS (UK) 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 ltr	NATO Stock Number
K.. FLIGHT & WEATHERDECK SYSTEMS – DEF STAN 80-134							
<u>(a). Hangar Doors</u>							
<u>Primer:</u> UMEGUARD HS SILVER*	1	125	7.40	20 hrs	30 days	158	99-264-0145
<u>Finish:</u> CAMSIL WB GF WATERBASED FINISH Light Weatherwork Grey BS381C 676	2	25	14.40	16 hrs	#	116	88-327-9058
<u>(b). Flightdeck - Type 2 Non-skid Finish</u>							
<u>Primer:</u> UMEGUARD HS SILVER	1	125	7.40	20 hrs	30 days	158	99-264-0145
<u>Finish:</u> CAMIDECK FINISH TYPE II Extra Dark Sea Grey BS381C 640	2	208	2.83	16 hrs	#	374	99-147-1303
<u>Type 2 Repair Kit:</u>							99-577-3550
<u>(c). Hangar Decks & Weatherdecks - Type 1 Non-skid Finish:</u>							
<u>Primer:</u> UMEGUARD HS SILVER	1	125	7.40	20 hrs	30 days	158	99-264-0145
<u>Hanger Deck</u> CAMIDECK FINISH TYPE I Dark Admiralty Grey BS381C 632	2	190	2.84	16 hrs	#	374	99-541-9581
<u>Weatherdecks</u> CAMIDECK FINISH TYPE I Extra Dark Sea Grey BS381C 640	2	190	2.84	16 hrs	#	374	
<u>Type 1 Repair Kit:</u>							
<u>(d). Gloss for Deck Margins:</u> UMEGUARD HS GREY Extra Dark Sea Grey BS381C 640	2	75	11.86	20 hrs	30 days	158	99-126-9478
L. INTERIOR DRY SPACES (Complete Represervation)							
<u>(i) Standard Primer:</u> UMEGUARD HS SILVER	1	125	7.40	20 hrs	30 days	158	99-264-0145
<u>Finish:</u> CAMACRYL FINISH MAC BS4800 00A01	2	40	11	24 hrs	#	33	99-676-4126
or							
<u>Alternative Finish:</u> AQUALIFE GLOSS FINISH BS4800 00A01	2	40	10	16 hrs	7 days	132	99-757-9334
M. INTERIOR DRY SPACES (Touch up)							
<u>(i) Standard Primer:</u> UMEGUARD HS SILVER	1	125	7.40	20 hrs	30 days	158	99-264-0145
<u>Finish:</u> CAMACRYL FINISH MAC	2	40	11	24 hrs	#	33	99-676-4126
or							
<u>Alternative Finish:</u> AQUALIFE GLOSS FINISH BS4800 00A01	2	40	10	16 hrs	7 days	132	99-757-9334
<u>(ii) Alternative Primer:</u> CAMACRYL ZP PRIMER	2	60	6.66	6 hrs	#	50	99-125-9909
<u>Finish:</u> CAMACRYL FINISH MAC	2	40	11	24 hrs	#	33	99-676-4126
or							
<u>Alternative Finish:</u> AQUALIFE GLOSS FINISH BS4800 00A01	2	40	10	16 hrs	7 days	132	99-757-9334

ANNEXE A
WHOLE SHIP SPECIFICATION
Proposed by

CHUGOKU PAINTS (UK) 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 ltr	NATO Stock Number
N. INTERIOR WET SPACES (Touch up)							
(i) <u>Standard Primer:</u> UMEGUARD HS SILVER	1	125	7.40	20 hrs	30 days	158	99-264-0145
<u>Finish:</u> AQUALIFE GLOSS FINISH Ash Grey BS4800 00A01	2	40	10	16 hrs	7 days	132	99-757-9334
(ii) <u>Citadel lobby Primer:</u> UMEGUARD HS SILVER	1	125	7.40	20 hrs	30 days	158	99-264-0145
<u>Finish:</u> AQUALIFE GLOSS FINISH - Colour BS4800 00A01 or Grey BS381C 676	2	40	10	16 hrs	7 days	132	99-757-9334
(iii) <u>Cleansing Stations Primer:</u> UMEGUARD HS	1	125	7.40	20 hrs	30 days	158	
<u>Finish:</u> AQUALIFE GLOSS FINISH White	2	40	10	16 hrs	7 days	132	
(iv) <u>Magazine Primer:</u> UMEGUARD HS	1	125	7.40	20 hrs	30 days	158	99-126-9478
<u>Finish:</u> AQUALIFE GLOSS FINISH BS4800 00A01	2	40	10	16 hrs	7 days	132	99-757-9334
O. INTERIOR WET SPACES (Touch up)							
(i) <u>Standard Primer:</u> UMEGUARD HS SILVER	1	125	7.40	20 hrs	30 days	158	99-264-0145
<u>Finish:</u> AQUALIFE GLOSS FINISH Ash Grey BS4800 00A01	2	40	10	16 hrs	7 days	132	99-757-9334
(ii) <u>Citadel lobby Primer:</u> UMEGUARD HS SILVER	1	125	7.40	20 hrs	30 days	158	99-264-0145
<u>Finish:</u> AQUALIFE GLOSS FINISH - Colour BS4800 00A01 or Grey BS381C 676	2	40	10	16 hrs	7 days	132	99-757-9334
(iii) <u>Cleansing Stations Primer:</u> UMEGUARD HS	1	125	7.40	20 hrs	30 days	158	
<u>Finish:</u> AQUALIFE GLOSS FINISH White	2	40	10	16 hrs	7 days	132	
(iv) <u>Magazine Primer:</u> UMEGUARD HS	1	125	7.40	20 hrs	30 days	158	99-126-9478
<u>Finish:</u> AQUALIFE GLOSS FINISH BS4800 00A01	2	40	10	16 hrs	7 days	132	99-757-9334
P. INTERIOR DECKS							
(i) <u>Standard Primer:</u> AQUALIFE WSE PRIMER	2	50	9	16 hrs	#	0	99-398-1182
<u>Finish:</u> AQUALIFE FINISH Green 14C39	2	40	10	16 hrs	7 days	132	99-755-6242
(ii) <u>Cleansing Stations Primer:</u> UMEGUARD HS	1	125	7.40	20 hrs	30 days	158	
<u>Finish:</u> AQUALIFE FINISH Green 14C39	2	40	10	16 hrs	7 days	132	99-755-6242
Q. BATTERY COMPARTMENTS							
(i) <u>Primer:</u> UMEGUARD HS SILVER	1	125	7.40	20 hrs	30 days	108	99-264-0145
(ii) <u>Finish:</u> AQUALIFE GLOSS FINISH BS4800 00A01	2	40	10	16 hrs	7 days	132	99-757-9334

ANNEXE A
WHOLE SHIP SPECIFICATION
Proposed by

CHUGOKU PAINTS (UK) Ltd

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

ANNEXE A
WHOLE SHIP SPECIFICATION
Proposed by

CHUGOKU PAINTS (UK) 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 ltr	NATO Stock Number
Z. PRIMERS FOR NON-FERROUS METALS							
(i) <u>Aluminium</u> : ALP 500	1	50	11.6	10 hrs	#	414	99-967-8636
(ii) <u>Stainless Steel</u> : UMEGUARD HS	1	125	7.40	20 hrs	30 days	158	99-126-9478
(iii) <u>Zinc Spray</u> : 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) <u>FRP Indicator coat</u> :							

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 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

INTENTIONALLY BLANK



INTENTIONALLY BLANK

ANNEX B
WHOLE SHIP SPECIFICATION
Proposed by

HEMPEL UK 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 ltr	NATO Stock Number
A. UNDERWATER PRIMER (Re-blast) ~							
(i) <u>Standard:</u> HEMPADUR 45880 MIO 1243	1	175	4.6	8 hrs	30days	198	99-803-7233
(ii) <u>Alternative:</u> HEMPADUR QUATTRO 17634	1	175	4.1	6 hrs	90 days	275	
(iii) <u>Tie Coat:</u> HEMPADUR 45182	1	75	6.1	6 hrs	5 days	485	99-893-9646
(iv) <u>Tie Coat For D:</u> HEMPEL NEXUS 27302	1	120	5.8	6 hrs	24 hrs	265	
B. UNDERWATER PRIMER (T/U at Docking)							
(i) <u>Standard:</u> HEMPADUR 45880 MIO 12430	1	175	4.6	8 hrs	30 days	198	99-803-7233
(ii) <u>Alternative:</u> HEMPADUR QUATTRO 17634	1	175	4.1	6 hrs	90 days	275	
(iii) <u>Tie Coat:</u> HEMPADUR 45182	1	75	6.1	6 hrs	5 days	485	99-893-9646
(iv) <u>Tie Coat For D:</u> HEMPEL NEXUS 27302	1	120	5.8	6 hrs	24 hrs	265	
C. ANTIFOULING (Tin Free – 5 year life)							
HEMPELS ANTI-FOULING GLOBIC NCT 8195N	2	130	4.2	10 hrs	#	410	
D. ANTIFOULING (FOUL RELEASE 5+ yr life)							
HEMPASIL X3 87500	1	150	4.7	6 hrs	#	265	
E. ANTIFOULING (Tin Free 3+ year life)							
(i) <u>Standard:</u> OLYMPIC 86950	2	100	5.0	8 hrs	#	470	
(ii) <u>Alternative:</u> GLOBIC NCT 8195N	2	100	5.5	10 hrs	#	410	
F. BOOTTOP ANTIFOULING (Tin Free)							
OLYMPIC 86950	2	100	5.0	8 hrs	#	470	99-147-9828
G. A/W HULL & SUPERSTRUCTURE PRIMER (Reblast)							
HEMPADUR 45880 MIO 12430	1	150	6.0	8 hrs	#	198	99-803-7233
H. A/W HULL & SUPERSTRUCTURE PRIMER (Touch Up)							
(i) <u>Standard:</u> HEMPADUR 45880 MIO 12430	1	150	6.0	8 hrs	#	198	99-803-7233
(ii) <u>Alternative :</u> HEMUCRYL PRIMER 18100	2	30	15.7	4 hrs	#	65	99-909-6026

ANNEX B
WHOLE SHIP SPECIFICATION
Proposed by

HEMPEL UK 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 ltr	NATO Stock Number
J. A/W HULL & SUPERSTRUCTURE FINISH (Reblast)							
(i) <u>Standard:</u> HEMPEL'S PRO ACRYLIC 55880 Light Weatherwork Grey BS 381C 676	1	50	12.0	12 hrs	#	380	
(ii) <u>Alternative:</u> HEMPELS SILICONE ALKYD FINISH 536GB Light Weatherwork Grey BS 381C 676	1	35	15.4	8 hrs	1-2 days	410	99-772-5448
(iii) <u>Tie Coat – (if required)</u> HEMPEL'S UNDERCOAT 424GB	1	40	12.5	8 hrs	7 days	385	99-224-6752
(iv) <u>Sealer for RASH</u> HEMUCRYL 18100	1	30	15.7	4 hrs	#	65	99-909-6026
K. FLIGHT & WEATHERDECK SYSTEMS - DSTAN 80-134							
(a) Hangar Doors							
(i) <u>Primer:</u> HEMPADUR 45880 MIO 12430	1	100	8.0	7 hrs	#	198	99-803-7233
(ii) <u>Finish:</u> HEMPEL'S PRO ACRYLIC 55880 Light Weatherwork Grey BS 381C 676	1	50	12.0	12 hrs	#	380	
(b) Flight Deck - Type 2 Non-skid Finish:							
(i) <u>Primer:</u> HEMPADUR 45880 MIO 12430	1	100	8.0	7 hrs	#	198	99-803-7233
(ii) <u>Finish:</u> HEMPEL'S NON SKID 457GB Extra Dark Sea Grey BS 381C 640	2	400	1.9	6 hrs	30days	206	99-831-0343
(iii) <u>Type 2 Repair Kit:</u> HEMPEL'S DECK REPAIR KIT 941 Extra Dark Sea Grey BS 381C 640							99-340-2100
(c) Hangar Deck & Weatherdeck - Type 1 Non-skid Finish:							
(i) <u>Primer:</u> HEMPADUR 45880 MIO 12430	1	100	8.0	7 hrs	#	198	99-803-7233
(ii) <u>Hangar Deck – Finish:</u> HEMPEL'S NON SKID 45340 Dark Admiralty Grey BS 381C 632	2	200	3.2	6 hrs	30days	347	99-670-9581
(iii) <u>Weatherdeck - Finish:</u> HEMPEL'S NON SKID 45340 Extra Dark Sea Grey BS 381C 640	2	200	3.2	6 hrs	30days	347	99-213-1121
(iv) <u>Type 1 Repair Kit:</u> HEMPEL'S DECK REPAIR KIT 942GB Extra Dark Sea Grey BS 381C 640							99-471-2960
(d) Gloss for Deck Margins: HEMPEL'S NON SKID 457GA	2	125	5.0	5 hrs	#	330	99-879-5150

ANNEX B
WHOLE SHIP SPECIFICATION
Proposed by

HEMPEL UK 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 ltr	NATO Stock Number
L. INTERIOR DRY COMPARTMENTS (Full preservation)							
(i) <u>Standard Primer:</u> HEMPADUR 45880	1	125	6.4	7 hrs	#	198	99-803-7233
(ii) <u>Alternative Primer:</u> HEMUCRYL Primer High Build	1	75	5.7	2 hrs	#	45	
(iii) <u>Finish:</u> HEMUCRYL ENAMEL 58100 BS 4800 00A01	2	30	13.7	6 hrs	#	70	99-660-9288
(iv) <u>Alternative Finish:</u> HEMPEL'S WB EPOXY 48580 BS 4800 00A01	1	80	6.9	12 hrs	15 days	27	99-988-2715
M. INTERIOR DRY COMPARTMENTS (Touch up)							
(i) <u>Standard Primer:</u> HEMPADUR 45880	1	125	6.4	7 hrs	#	198	99-803-7233
(ii) <u>Alternative Primer:</u> HEMUCRYL Primer High Build	1	75	5.7	2 hrs	#	45	
(iii) <u>Finish:</u> HEMUCRYL ENAMEL 58100 BS 4800 00A01	2	30	13.7	6 hrs	#	70	99-660-9288
(iv) <u>Alternative Finish:</u> HEMPEL'S WB EPOXY 48580 BS 4800 00A01	1	80	6.9	12 hrs	15 days	27	99-988-2715
N. INTERIOR WET COMPARTMENTS (Full preservation)							
(a) <u>Standard Areas</u>							
(i) <u>Primer:</u> HEMPADUR 45880	1	125	6.4	7 hrs	#	198	99-803-7233
(ii) <u>Alternative Primer A:</u> HEMPADUR 17634	1	125	5.8	5 hrs	#	275	
(iii) <u>Alternative Primer B:</u> HEMUDUR 18500	1	60	8.8	6 hrs	1 week	25	99-867-8090
(iv) <u>Finish:</u> 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) <u>Primer:</u> HEMPADUR 45880	1	125	6.4	7 hrs	#	198	99-803-7233
(ii) <u>Finish:</u> 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) <u>Finish:</u> HEMPADUR 45143 White	1	100	6.0	8 hrs	#	375	99-602-7280

ANNEX B
WHOLE SHIP SPECIFICATION
Proposed by

HEMPEL UK 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 ltr	NATO Stock Number
N. INTERIOR WET COMPARTMENTS (cont)							
(d) <u>Aluminium Free Coatings for Magazine Use</u>							
(i) <u>Primer:</u> HEMPADUR 45880	1	100	8.0	7 hrs	#	198	99-803-7233
(ii) <u>Finish:</u> HEMPEL'S WATER BASED EPOXY 48580 BS 4800 00A01	1	80	6.9	1 hrs	15 days	27	99-988-2715
O. INTERIOR WET COMPARTMENTS (Touch up)							
(a) <u>Standard areas</u>							
(i) <u>Primer:</u> HEMPADUR 45880	1	125	6.4	7 hrs	#	198	99-803-7233
(ii) <u>Finish:</u> 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) <u>Primer:</u> HEMPADUR 45880	1	125	6.4	7 hrs	#	198	99-803-7233
(ii) <u>Finish:</u> 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) <u>Finish:</u> HEMPADUR 45143 White	1	100	6.0	8 hrs	#	375	99-602-7280
(d) <u>Aluminium Free Coatings for Magazine Use</u>							
(i) <u>Primer:</u> HEMPADUR 45880	1	100	8.0	7 hrs	#	198	99-803-7233
(ii) <u>Finish:</u> HEMPEL'S WATER BASED EPOXY 48580 BS 4800 00A01	1	80	6.9	12 hrs	15 days	27	99-988-2715
P. INTERIOR DECKS							
(i) <u>Standard Primer:</u> HEMPADUR 45880	1	125	6.4	7 hrs	#	198	99-803-7233
(ii) <u>Finish:</u> HEMPEL'S WATER BASED EPOXY 48580 BS 4800 Green 14C39	1	80	6.9	12 hrs	15 days	27	99-279-8221
(iii) <u>Cleansing Stations Primer:</u> HEMPADUR 45880	1	125	6.4	7 hrs	#	198	99-803-7233
(iii) <u>Finish:</u> HEMPADUR 45143 BS 4800 Green 14C39	1	100	6.0	8 hrs	#	375	99-471-1920

ANNEX B
WHOLE SHIP SPECIFICATION
Proposed by

HEMPEL UK LTD

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

ANNEX B
WHOLE SHIP SPECIFICATION
Proposed by

HEMPEL UK 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 ltr	NATO Stock Number
Z. <u>PRIMERS FOR NON-FERROUS METALS</u>							
(i) <u>Aluminium</u> HEMUCRYL TIE COAT 18200 (1 pack) or HEMPADUR 15553 (2 pack)	1	20	19.0	24 hrs	#	40	99-199-2908
	1	50	11.0	2 hrs	#	400	99-870-0653
(ii) <u>Stainless Steel</u> HEMUCRYL TIE COAT 18200 (1 pack) or HEMPADUR 15553 (2 pack)	1	20	19.0	24 hrs	#	40	99-199-2908
	1	50	11.0	2 hrs	#	400	99-870-0653
(iii) <u>Zinc Spray</u> HEMUCRYL TIE COAT 18200 (1 pack) or <u>Galvanise</u> HEMPADUR 15553 (2 pack)	1	20	19.0	24 hrs	#	40	99-199-2908
	1	50	11.0	2 hrs	#	400	99-870-0653
(iv) <u>Indicator Coat for FRP</u> GELPROTECT SFE200 Cream	1	200	5.0	8 hrs	5 days	10	99-517-4318

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. # 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. ~ = Use blast primer Y. when appropriate.

INTENTIONALLY BLANK



INTENTIONALLY BLANK

INTENTIONALLY BLANK



INTENTIONALLY BLANK

ANNEXE C
WHOLE SHIP SPECIFICATIONS
Proposed by

INTERNATIONAL PAINT 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 ltr	NATO Stock Number
A. UNDERWATER PRIMER (Re-blast) ~							
(i) <u>Standard:</u> INTERGARD 5000	1	175	4.68	12 hrs	2 months	179	99-133-3854
(ii) <u>Alternative:</u> INTERSHIELD 300 Foul Release only (Area D)	2	125	4.80	7 hrs	14 days	313	
(iii) <u>Tie Coat for C:</u> INTERGARD 263	1	75	7.60	8 hrs	5 days	379	
(iv) <u>Tie Coat for D (if needed):</u> INTERSLEEK 737	1	100	6.5	4 hrs	7 days	325	
B. UNDERWATER PRIMER (T/U at Docking)							
(i) <u>Standard:</u> INTERGARD 5000	1	175	4.68	12 hrs	2 months	179	99-133-3854
(ii) <u>Alternative:</u> INTERSHIELD 300 Foul Release only (Area D)	2	125	4.80	7 hrs	14 days	313	
(iii) <u>Tie Coat for C :</u> INTERGARD 263	1	75	7.60	8 hrs	5 days	379	
(iv) <u>Tie Coat for D (if needed):</u> INTERSLEEK 737	1	100	6.5	4 hrs	7 days	325	
C. ANTIFOULING (Tin Free - 5yr life)							
INTERSMOOTH 7460	2	125	3.20	12 hrs	28 days	425	
D. ANTIFOULING (FOUL RELEASE 5+ yr life)							
(i) <u>Standard</u> INTERSLEEK 757	1	150	4.80	24 hrs		325	
(ii) <u>Alternative</u> INTERSLEEK 970	1	150	4.8	24 hrs		248	
E. ANTIFOULING (Tin Free 3+ yr life)							
INTER SPEED 6400 Black	1	75	8.00	6 hrs	3 months	358	
F. BOOTTOP ANTIFOULING (Tin Free)							
INTER SPEED 6400 Black	2	60	10.00	6 hrs	3 months	358	99-344-3990
BOOTTOP ANTIFOULING (FOUL RELEASE)							
(i) <u>Standard</u> INTERSLEEK 757	1	150	4.80	24 hrs		325	
(ii) <u>Alternative</u> INTERSLEEK 970	1	150	4.8	24 hrs		248	
(iii) <u>Repair</u> INTERSLEEK RAPID Black	1	150	4.0	24 hrs		350	
G. A/W HULL & SUPERSTRUCTURE PRIMER (Re-blast)							
INTERGARD 5000	1	150	5.47	12 hrs	14 days	179	

ANNEXE C
WHOLE SHIP SPECIFICATIONS
Proposed by

INTERNATIONAL PAINT 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 ltr	NATO Stock Number
H. A/W HULL & SUPERSTRUCTURE PRIMER (Touch Up)							
INTERGARD 5000 Dawn Grey BS 4800 00A01	1	150	5.47	12 hrs	14 days	179	99-000-5256
J. A/W HULL & SUPERSTRUCTURE FINISH							
(i) <u>Standard:</u> INTERFINE 691 HS BS 381C 676	1	50	10.6	8 hrs	#	409	99-864-5322
(ii) <u>Alternative:</u> INTERLAC 846	1	35	15.14	24 hrs	4 days	325	99-700-8410
(iii) <u>Tie Coat (if required):</u> INTERPRIME 198 CPA098	1	35	11.71	24 hrs	3 days	419	
K. FLIGHT & WEATHERDECK SYSTEMS – DEF STAN 80-134							
<u>(a) Hangar Doors</u>							
<u>Primer:</u> INTERGARD 5000	1	150	5.47	12 hrs	14 days	179	99-000-5256
<u>Finish:</u> INTERFINE 691 HS Grey BS 381C 676	1	50	10.6	8 hrs	#	409	99-864-5322
<u>(b) Flightdeck - Type 2 Non-skid Finish</u>							
<u>Primer:</u> INTERGARD 5000 Dawn Grey BS 4800 00A01	1	150	5.47	12 hrs	14 days	179	99-000-5256
<u>Finish:</u> INTERSHIELD 851 Extra Dark Sea Grey BS 381C 640	2	300	1.28	16 hrs	#	169	99-391-0953
<u>Type 2 Repair Kit:</u> INTERSHIELD 851 REP KIT – Extra Dark Sea Grey BS 381C 640							99-325-0579
<u>(c) Hanger Deck & Weatherdeck - Type 1 Non-skid Finish:</u>							
<u>Primer:</u> INTERGARD 5000 Dawn Grey BS 4800 00A01	1	150	5.47	12 hrs	14 days	179	99-000-5256
<u>Hanger Deck:</u> INTERSHIELD 852 Dark Admiralty Grey BS 381C 632	2	200	1.92	12 hrs	#	134	99-149-8996
<u>Weatherdeck:</u> INTERSHIELD 852 Extra Dark Sea Grey BS 381C 640	2	200	1.92	12 hrs	#	134	99-583-1344
<u>Type 1 Repair Kit:</u> INTERSHIELD 852 REPAIR KIT – Dark Admiralty Grey BS 381C 632							99-993-9328
<u>(d) Gloss for Deck Margins:</u> INTERGARD 740 Extra Dark Sea Grey BS 381C 640	1	50	10.2	16 hrs	#	420	99-182-2627

ANNEXE C
WHOLE SHIP SPECIFICATIONS
Proposed by

INTERNATIONAL PAINT LTD

Proposed system Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
<u>L. INTERIOR DRY COMPARTMENTS (Complete Represervation)</u>							
(i) <u>Standard Primer:</u> INTERGARD 5000 Dawn Grey	1	125	6.56	12 hrs	#	179	99-000-5256
<u>Finish:</u> INTERCRYL 700 BS 4800 00A01	1 or 2	35	11.42	60 mins	#	50	99-799-8832
<u>Alternative Finish:</u> INTERSHEEN 5579	1 or 2	35	11.29	60 mins	#	12	
<u>M. INTERIOR DRY COMPARTMENTS (Touch up)</u>							
(i) <u>Standard Primer:</u> INTERGARD 5000 Dawn Grey	1	125	6.56	12 hrs	#	179	99-000-5256
<u>Finish:</u> INTERCRYL 700 BS 4800 00A01	1 or 2	35	11.42	60 mins	#	50	99-799-8832
<u>Alternative Finish:</u> INTERSHEEN 5579	1 or 2	35	11.29	60 mins	#	12	
<u>N. INTERIOR WET COMPARTMENTS (Complete Represervation)</u>							
(i) <u>Standard Primer:</u> INTERGARD 5000 Dawn Grey	1	125	6.56	24 hrs	#	179	99-000-5256
<u>Finish:</u> INTERGARD 1735 BS 4800 00A01	1 or 2	50	11.20	12 hrs	#	132	99-255-0527
(ii) <u>Citadel lobby Primer:</u> INTERGARD 5000 Dawn Grey	1	125	6.56	24 hrs	#	179	99-000-5256
<u>Finish:</u> INTERGARD 1735	1 or 2	50	11.20	12 hrs	#	132	99-255-0527
Colour either: BS 4800 00A01 or Grey BS 381C 676							
(iii) <u>Cleansing Stations</u>							
<u>Primer:</u> INTERGARD 840 White	1	125	6.56	24 hrs	4 days	134	99-279-8277
<u>Finish:</u> INTERFINE 979	1	125	7.60	4 hrs	#	165	99-168-7337
(iv) <u>Magazines Primer:</u> INTERGARD 5000	1	125	6.56	24 hrs	4 days	179	99-000-5256
<u>Finish:</u> INTERGARD 1735 BS 4800 00A01	1 or 2	50	11.20	12 hrs	#	132	99-255-0527
<u>O. INTERIOR WET COMPARTMENTS (Touch up)</u>							
(i) <u>Standard Primer:</u> INTERGARD 5000 Dawn Grey	1	125	6.56	24 hrs	#	179	99-000-5256
<u>Finish:</u> INTERGARD 1735 BS 4800 00A01	1 or 2	50	11.20	12 hrs	#	132	99-255-0527
(ii) <u>Citadel lobby Primer:</u> INTERGARD 5000 Dawn Grey	1	125	6.56	24 hrs	#	179	99-000-5256
<u>Finish:</u> INTERGARD 1735	1 or 2	50	11.20	12 hrs	#	132	99-255-0527
Colour either: BS 4800 00A01 or Grey BS 381C 676							
(iii) <u>Cleansing Stations</u>							
<u>Primer:</u> INTERGARD 840 White	1	125	6.56	24 hrs	4 days	134	99-279-8277
<u>Finish:</u> INTERFINE 979	1	125	7.60	4 hrs	#	165	99-168-7337
(iv) <u>Magazines Primer:</u> INTERGARD 5000 Dawn Grey	1	125	6.56	24 hrs	#	179	99-000-5256
<u>Finish:</u> INTERGARD 1735 BS 4800 00A01	1 or 2	50	11.20	12 hrs	#	132	99-255-0527

ANNEXE C
WHOLE SHIP SPECIFICATIONS
Proposed by

INTERNATIONAL PAINT 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 ltr	NATO Stock Number
P. INTERIOR DECKS							
(i) <u>Standard Primer:</u> INTERGARD 5000 Dawn Grey	1	125	6.56	12 hrs	#	179	99-000-5256
<u>Finish:</u> INTERGARD 1735 BS 4800 Green 14C39	1	50	11.20	12 hrs	#	132	99-483-1994
(ii) <u>Cleansing Stations</u>							
<u>Standard Primer:</u> INTERGARD 840 White	1	125	6.56	24 hrs	4 days	134	99-279-8277
<u>Finish:</u> INTERFINE 979 BS 4800 Green 14C39	1	125	7.60	4 hrs	#	165	99-729-7357
Q. BATTERY COMPARTMENTS							
<u>Primer:</u> INTERGARD 5000 Dawn Grey	1	125	6.56	12 hrs	#	179	99-000-5256
<u>Finish:</u> INTERGARD 1735 BS 4800 00A01	1	50	11.20	12 hrs	#	132	99-255-0527
R. CABLE LOCKERS & COFFERDAMS							
INTERGARD 5000	1	150	5.46	12hrs	3 months	179	
S. SEWAGE & WATER BALLAST TANKS.							
<u>Water Ballast Tanks:</u> INTERGARD 5000	2	125	6.56	12 hrs	3 months	179	
<u>Sewage Tanks:</u> INTERLINE 850	2	125	6.08	8 hrs	30 days	212	
T. MACHINERY SPACE BILGES							
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)							
INTERLINE 850	2	125	6.08	8 hrs	30 days	212	
V. POTABLE WATER TANKS							
INTERLINE 925	1	300	3.33	18 hrs	3 days	1	
W. AQUEOUS FILM-FORMING 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	

ANNEXE C
WHOLE SHIP SPECIFICATIONS
Proposed by

INTERNATIONAL PAINT 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 ltr	NATO Stock Number
Y. EPOXY HOLDING PRIMER							
(i) <u>Standard:</u> INTERGARD 269	1	30	15.67	6 hrs	#	411	99-983-0743
(ii) <u>Alternative & Maintenance:</u> INTERGARD 276	1	40	11.75	6 hrs	#	411	
Z. PRIMERS FOR NON-FERROUS METALS & FRP							
<u>Aluminium, Stainless steel, Zinc Spray or Galvanised surfaces:</u>							
<u>Standard:</u> INTERGARD 269	1	30	15.67	6 hrs	#	411	99-983-0743
<u>Alternative:</u> INTERGARD 276	1	40	11.75	6 hrs	#	411	
<u>Indicator Coat for FRP:</u>							
INTERLINE 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. ~ = Use blast primer Y. when appropriate

INTENTIONALLY BLANK



INTENTIONALLY BLANK

ANNEXE D
WHOLE SHIP SPECIFICATIONS
Proposed by

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

ANNEXE D
WHOLE SHIP SPECIFICATIONS
Proposed by

JOTUN PAINTS (EUROPE) LTD

<u>Proposed Systems /Materials</u>	<u>Number of Coats</u>	<u>NDFT per coat microns</u>	<u>Theo SR m²/litre</u>	<u>Min Recoat Interval</u>	<u>Max Recoat Interval</u>	<u>VOC gms per litre</u>	<u>NATO Stock Number</u>
<u>J. AW HULL & SUPERSTRUCTURE FINISH</u>							
(i) <u>Standard</u> : JOTAPROOF TOPCOAT (BS381C 676)	1 or 2	60	10.5	4 hrs	#	310	99-310-9229
(ii) <u>Alternative</u> : CORREX (BS381C 676)	1	40	12.0	14 hrs	#	390	
<u>Tie Coat for CORREX Finish</u> : VINYGUARD SILVERGREY 88	1	40	9.5	2 hrs	#	530	99-212-5888
<u>K. FLIGHT & WEATHERDECK SYSTEMS – DEF STAN 80-134</u>							
<u>(a) HANGAR DOORS</u>							
(i) <u>Standard Primer</u> : JOTAMASTIC 80 (aluminium)	1	150	5.3	10 hrs	#	145	
(ii) <u>Alternative Primer</u> : 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) <u>Standard Finish</u> : JOTAPROOF TOPCOAT (BS381C 676)	1 or 2	60	10.5	4 hrs	#	310	99-310-9229
(ii) <u>Alternative Finish</u> : CORREX (BS381C 676)	1	40	12.0	14 hrs	#	390	
<u>Tie Coat for CORREX Finish</u> : VINYGUARD SILVERGREY 88	1	40	9.5	2 hrs	#	530	99-212-5888
<u>(b) FLIGHT DECK SYSTEM - TYPE 2 NON-SKID FINISH</u>							
<u>Primer</u> : JOTAMASTIC 87	1	150	5.5	10 hrs	#	150	99-502-2684
<u>Finish</u> : JOTA ARMOUR (BS381C 640)	2	375	2.4	14 hrs	#	70	99-226-7300
<u>Type 2 Repair Kit</u> : JOTA ARMOUR REPAIR KIT (BS381C 640)							
<u>(c) HANGAR DECKS & WEATHERDECKS - TYPE 1 NON-SKID FINISH</u>							
<u>Primer</u> : JOTAMASTIC 87	1	150	5.5	10 hrs	#	150	99-502-2684
<u>Hangar Deck Finish</u> : JOTA ARMOUR FINE (BS381C 632)	2	200					
<u>Weatherdeck Finish</u> : JOTA ARMOUR FINE (BS381C 640)	2	200					
<u>Type 1 Repair Kit</u> : JOTA ARMOUR FINE REPAIR KIT (BS381C 640 or 632)							
<u>(d) Gloss for Deck Margins</u>							
JOTAPROOF TOPCOAT	1 or 2	60	10.5	4 hrs	#	310	
<u>L. INTERIOR DRY SPACES (Complete Represervation)</u>							
(i) <u>Standard Primer</u> : 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
<u>Finish</u> : WATERFINE TOPCOAT (BS4800 00A01)	1 or 2	40	9.2	8 hrs	#	105	99-272-2784

ANNEXE D
WHOLE SHIP SPECIFICATIONS
Proposed by

JOTUN PAINTS (EUROPE) LTD

<u>Proposed Systems /Materials</u>	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per litre	NATO Stock Number
<u>M. INTERIOR DRY SPACES (Touch up)</u>							
(i) <u>Standard Primer:</u> 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
<u>Finish:</u> WATERFINE TOPCOAT (BS4800 00A01)	1 or 2	40	9.2	8 hrs	#	105	99-272-2784
<u>N. INTERIOR WET SPACES (Complete Represervation)</u>							
<u>Primer:</u> WATERFINE PRIMER	1	100	4.6	1.5 hrs	#	60	99-462-9708
<u>Finish:</u> WATERFINE PRIMER (BS4800 00A01)	1 or 2	40	11.6	1.5 hrs	#	60	
<u>Citadel Lobby Primer:</u> WATERFINE PRIMER	1	80	5.8	1.5 hrs	#	60	99-462-9708
<u>Citadel Lobby Finish:</u> WATERFINE PRIMER (BS4800 00A01 or BS381C 676)	1 or 2	40	11.6	1.5 hrs	#	60	
<u>Cleansing Stations Primer:</u>							
<u>Cleansing Stations Finish:</u>							
<u>Magazine Primer:</u> WATERFINE PRIMER	1	100	4.6	1.5 hrs	#	60	99-462-9708
<u>Magazine Finish:</u> WATERFINE PRIMER (BS4800 00A01)	1 or 2	40	11.6	1.5 hrs	#	60	
<u>O. INTERIOR WET SPACES (Touch up)</u>							
<u>Primer:</u> WATERFINE PRIMER	1	100	4.6	1.5 hrs	#	60	99-462-9708
<u>Finish:</u> WATERFINE PRIMER (BS4800 00A01)	1 or 2	40	11.6	1.5 hrs	#	60	
<u>Citadel Lobby Primer:</u> WATERFINE PRIMER	1	100	4.6	1.5 hrs	#	60	99-462-9708
<u>Citadel Lobby Finish:</u> WATERFINE PRIMER (BS4800 00A01 or BS381C 676)	1 or 2	40	11.6	1.5 hrs	#	60	
<u>Cleansing Stations Primer:</u>							
<u>Cleansing Stations Finish:</u>							
<u>Magazine Primer:</u> WATERFINE PRIMER	1	100	4.6	1.5 hrs	#	60	99-462-9708
<u>Magazine Finish:</u> WATERFINE PRIMER (BS4800 00A01)	1 or 2	40	11.6	1.5 hrs	#	60	
<u>P. INTERIOR DECKS</u>							
<u>Primer:</u> WATERFINE PRIMER	1	100	4.6	1.5 hrs	#	60	99-462-9708
<u>Finish:</u> WATERFINE PRIMER (BS4800 14C39)	1 or 2	40	11.6	1.5 hrs	#	60	
<u>Cleansing Stations Primer:</u>							
<u>Cleansing Stations Finish:</u>							

ANNEXE D
WHOLE SHIP SPECIFICATIONS
Proposed by

JOTUN PAINTS (EUROPE) LTD

<u>Proposed Systems /Materials</u>	Number of Coats	NDFT per coat microns	Theo SR m²/litre	Min Recoat Interval	Max Recoat Interval	VOC gms per litre	NATO Stock Number
<u>Q. BATTERY COMPARTMENTS</u>							
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	
<u>R. CABLE LOCKERS & COFFERDAMS</u>							
(i) Standard: JOTAMASTIC 80	1	175	4.6	10 hrs	#	145	
(ii) Alternative: JOTACOTE UNIVERSAL (aluminium)	1	200	3.6	4 hrs	#	240	
<u>S. SEWAGE & WATER BALLAST TANKS</u>							
(i) <u>Water Ballast Tanks Standard:</u>							
BALLOXY HB LIGHT	1	160	5.1	10 hrs	#	150	
BALLOXY HB LIGHT	1	160	5.1	10 hrs	#	150	
(ii) <u>Water Ballast Tank Alternative:</u>							
JOTACOTE UNIVERSAL	1	160	4.5	4 hrs	#	240	
JOTACOTE UNIVERSAL	1	160	4.5	4 hrs	#	240	
(i) <u>Sewage Tanks Standard:</u>							
TANKGUARD STORAGE	1	150	4.2	10 hrs	30 days	310	
TANKGUARD STORAGE	1	150	4.2	10 hrs	30 days	310	
(ii) <u>Sewage Tanks Alternative:</u>							
TANKGUARD DW	1	150	6.7	12 hrs	5 days	2	
TANKGUARD DW	1	150	6.7	12 hrs	5 days	2	
<u>T. MACHINERY SPACE BILGES</u>							
Primer: JOTACOTE UNIVERSAL (aluminium)	1	125	5.8	4 hrs	#	240	
Finish: JOTAPROOF TOPCOAT (BS4800 00A01)	1	60	10.5	4 hrs	#	310	
<u>U. AVCAT. DIESEL LUB & HYDRAULIC OIL TANKS SYSTEM</u> <u>DEF STAN 80-97 (HIGH SOLIDS)</u>							
TANKGUARD STORAGE	1	125	5.0	10 hrs	30 days	310	
TANKGUARD STORAGE	1	125	5.0	10 hrs	30 days	310	
<u>V. POTABLE WATER TANKS</u>							
TANKGUARD DW	1	150	6.7	12 hrs	5 days	2	
TANKGUARD DW	1	150	6.7	12 hrs	5 days	2	
<u>W. AQUEOUS FILM-FORMING FOAM (AFFF) TANKS</u>							
TANKGUARD DW	1	150	6.7	12 hrs	5 days	2	
TANKGUARD DW	1	150	6.7	12 hrs	5 days	2	

ANNEXE D
WHOLE SHIP SPECIFICATIONS
Proposed by

JOTUN PAINTS (EUROPE) LTD

<u>Proposed Systems /Materials</u>	<u>Number of Coats</u>	<u>NDFT per coat microns</u>	<u>Theo SR m²/litre</u>	<u>Min Recoat Interval</u>	<u>Max Recoat Interval</u>	<u>VOC gms per litre</u>	<u>NATO Stock Number</u>
<u>X. DEMINERALISED WATER TANKS (Max Temperature 90 °C)</u>							
TANKGUARD STORAGE	1	125	5.0	10 hrs	30 days	310	
TANKGUARD STORAGE	1	125	5.0	10 hrs	30 days	310	
TANKGUARD STORAGE	1	125	5.0	10 hrs	30 days	310	
<u>Y. EPOXY HOLDING PRIMER</u>							
MUKI EPS	1	20	12.5	7 hrs		610	
<u>Z. PRIMERS FOR NON-FERROUS METALS</u>							
(i) <u>Aluminium Standard</u> : WATERFINE PRIMER	1	60	7.6	1.5 hrs	#	60	99-462-9708
(ii) <u>Stainless Steel Standard</u> : WATERFINE PRIMER	1	60	7.6	1.5 hrs	#	60	99-462-9708
(iii) <u>Zinc Spray / Galvanise Standard</u> : WATERFINE PRIMER	1	60	7.6	1.5 hrs	#	60	99-462-9708
(iv) <u>FRP Indicator Coat</u> : 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 appropriate

INTENTIONALLY BLANK



INTENTIONALLY BLANK

ANNEXE E
WHOLE SHIP SPECIFICATION
Proposed by

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
<u>A. UNDERWATER PRIMER (Re-blast)</u>										
(i) <u>Standard:</u>	SIGMASHIELD 220	7922	1	125	6.4	3½ hrs	14 days	262	99-403-5015 99-723-3658	
	SIGMASHIELD 420	7951	1	150	5.6	3½ hrs	14 days	239		
(ii) <u>Tie Coat:</u>	SIGMACOVER 525	7902	1	100	6.1	12hrs	14 days	365		
<u>B. UNDERWATER PRIMER (T/U at Docking)</u>										
(i) <u>Standard:</u>	SIGMASHIELD 220	7922	1	125	6.4	3½hrs	14 days	262	99-403-5015 99-723-3658	
	SIGMASHIELD 420	7951	1	150	5.6	3½hrs	14 days	239		
(ii) <u>Tie Coat:</u>	SIGMACOVER 525	7902	1	100	6.1	12hrs	14 days	365		
<u>C. ANTIFOULING (Tin Free >5yr life)</u>										
	SIGMA ECOFLEET 530 (red brown)	7385	1	110	5.4	6hrs	#	339		
	SIGMA ECOFLEET 530 (brown)	7385	1	110	5.4	6hrs	#	339		
	SIGMA ECOFLEET 530 (red brown)	7385	1	110	5.4	6hrs	#	339		
<u>D. ANTIFOULING (FOUL RELEASE 5+ yr life)</u>										
(i) <u>Standard</u>	SIGMACOVER 295	7947	1	100	5.5	16hrs	10 days	436	187	
	SIGMASHIELD 610	7978	1	150	3.8	12hrs	5 days	436		
	SIGMAGLIDE 790	7386	1	150	5.3	12hrs	5 days			
	SIGMAGLIDE 890	7399	1	150	3.4	20mins	#			
(ii) <u>Alternative</u>	SIGMACOVER 295	7947	1	100	5.5	16hrs	10 days	436	248	
	SIGMASHIELD 610	7978	1	150	3.8	12hrs	5 days	436		
	SIGMAGLIDE 790	7386	1	150	5.3	12hrs	5 days	187		
	SIGMAGLIDE 990	7397	1	180	4.4	2 hrs	#			
<u>E. ANTIFOULING (Tin Free 3+ yr life)</u>										
	SIGMA ECOFLEET 530 (red brown)	7385	1	110	5.4	6hrs	#	339		
	SIGMA ECOFLEET 530 (brown)	7385	1	110	5.4	6hrs	#	339		
<u>F. BOOTTOP ANTIFOULING (Tin Free)</u>										
	SIGMA ECOFLEET 530 (black)	7385	1	110	5.4	6hrs	#	339		
<u>G. A/W HULL & SUPERSTRUCTURE PRIMER (Reblast)</u>										
(i) <u>Standard:</u>	AMERLOCK 400C		1	125	7	16hrs	#	106	99-974-7400	
(ii) <u>Alternative:</u>	SIGMA AQUACOVER 25	7150	2	75	6.6	4hrs	#	37	99-321-6318	
<u>H. A/W HULL & SUPERSTRUCTURE PRIMER (Touch Up)</u>										
(i) <u>Standard:</u>	AMERLOCK 400C		1	125	7	16hrs	#	106	99-974-7400	
(ii) <u>Alternative:</u>	SIGMASHIELD 220	7922	1	125	6.4	3½hrs	14 days	262	99-403-5015	

ANNEXE E
WHOLE SHIP SPECIFICATION
Proposed by

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
J. A/W HULL& SUPERSTRUCTURE FINISH							
(I) <u>Standard:</u> SIGMADUR 540 Lt Weatherwork Grey BS381C 676 7740	1	60	9	8hrs	#	411	99-236-5744
(ii) <u>Alternative:</u> SIGMA AQUACOVER 45 7250	1	50	6.8	5hrs	#	10	
(iii) <u>Tie Coat (if required):</u>							
(iv) <u>Sealer for RASH</u> SIGMACOVER 566 7454	1	75	5.7	6hrs		494	
K. FLIGHT & WEATHERDECK SYSTEMS - DEFSTAN 80-134							
<u>(a) Hangar Doors</u>							
<u>Primer:</u> AMERLOCK 400C 7740	1	125	7	16hrs	#	106	99-974-7400
<u>Finish:</u> SIGMADUR 540 7740	1	60	9	8hrs	#	411	
<u>(b) Flight Deck - Type 2 Non-skid Finish:</u>							
<u>Primer:</u> AMERLOCK 400C	1	125	7	16hrs	#	106	99-974-7400
<u>Finish:</u> AMERLOCK 400 NS Extra Dark Sea Grey BS381C 640	2	400	2.3	16hrs	#	106	99-940-6452
<u>Type 2 Repair Kit:</u> AMERLOCK 400 NS T2R							
<u>(c) Hanger Deck & Weatherdeck - Type 1 Non-skid Finish:</u>							
<u>Primer:</u> AMERLOCK 400C	1	125	7	16hrs	#	106	99-974-7400
<u>Hangar Deck:</u> AMERLOCK 400 NS Dark Admiralty Grey BS 381C 632	2	300	4	16hrs	#	106	
<u>Weatherdeck:</u> AMERLOCK 400 NS Extra Dark Sea Grey BS 381C 640	2	300	4	16hrs	#	106	99-940-6452
<u>Type 1 Repair Kit:</u> AMERLOCK 400 NS T1R							
<u>(d) Gloss for Deck Margins:</u> AMERLOCK 400C Extra Dark Sea Grey BS 381C 640	1	125	7	16hrs	#	106	
L. INTERIOR DRY COMPARTMENTS (Complete Represervation)							
<u>Standard Primer:</u> AMERLOCK 400C	1	100	7	16hrs	#	106	99-974-7400
<u>Finish:</u> AMERLOCK 400C BS4800 00A01	1	100	7	16hrs	#	106	99-958-6062
M. INTERIOR DRY COMPARTMENTS (Touch up)							
(i) <u>Standard Primer:</u> AMERLOCK 400C	1	100	7	16hrs	#	106	99-974-7400
<u>Finish:</u> AMERLOCK 400C BS4800 00A01	1	100	7	16hrs	#	106	99-958-6062
(ii) <u>Alternative Primer:</u> SIGMA AQUACOVER 25 7149	1	75	5.7	4hrs	#	25	
<u>Finish:</u> SIGMA AQUACOVER 45 7250	1	50	6.8	24hrs	#	10	

ANNEXE E
WHOLE SHIP SPECIFICATION
Proposed by

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

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
<u>N. INTERIOR WET COMPARTMENTS (Complete Represervation)</u>							
(i) <u>Standard Primer:</u> AMERLOCK 400C	1	100	7	16hrs	#	106	99-974-7400
<u>Finish:</u> AMERLOCK 400C BS4800 00A01	1	100	7	16hrs	#	106	99-958-6062
(ii) <u>Citadel lobby - Primer:</u> AMERLOCK 400C	1	100	7	16hrs	#	106	99-974-7400
<u>Finish:</u> AMERLOCK 400C - Colour either BS4800 00A01 or Grey BS381C 676	1	100	7	16hrs	#	106	99-958-6062
(iii) <u>Cleansing Stations - Primer:</u> AMERLOCK 400C	1	125	7	16hrs	#	106	99-974-7400
<u>Finish:</u> AMERON PSX 700 White	1	125	7.2	4.5hrs	#	120	17-113-5689
(iv) <u>Magazines - Primer:</u> AMERLOCK 400C	1	100	7	16hrs	#	106	99-974-7400
<u>Finish:</u> AMERLOCK 400C BS4800 00A01	1	100	7	16hrs	#	106	99-958-6062
<u>O. INTERIOR WET COMPARTMENTS (touch-up)</u>							
(i) <u>Standard Primer:</u> AMERLOCK 400C	1	100	7	16hrs	#	106	99-974-7400
<u>Finish:</u> AMERLOCK 400C BS4800 00A01	1	100	7	16hrs	#	106	99-958-6062
(ii) <u>Citadel lobby - Primer:</u> AMERLOCK 400C	1	100	7	16hrs	#	106	99-974-7400
<u>Finish:</u> AMERLOCK 400C colours - BS4800 00A01 or Grey BS381C 676	1	100	7	16hrs	#	106	99-958-6062
(iii) <u>Cleansing Stations - Primer:</u> AMERLOCK 400C	1	125	7	16hrs	#	106	99-974-7400
<u>Finish:</u> AMERON PSX 700 White	1	125	7.2	4.5hrs	#	120	17-113-5689
(iv) <u>Magazines - Primer:</u> AMERLOCK 400C	1	100	7	16hrs	#	106	99-974-7400
<u>Finish:</u> AMERLOCK 400C BS4800 00A01	1	100	7	16hrs	#	106	99-958-6062
<u>P. INTERIOR DECKS</u>							
(i) <u>Standard Primer:</u> AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400
<u>Finish:</u> AMERCOAT 300A BS4800 14C39	1	50	10.4	16 hrs	#	0	17-113-5690
(ii) <u>Cleansing Stations - Primer:</u> AMERLOCK 400C	1	125	7	16hrs	#	106	99-974-7400
<u>Finish:</u> AMERON PSX 700 BS4800 14C39	2	125	7.2	4.5hrs	#	120	17-113-6169
<u>Q. BATTERY COMPARTMENTS</u>							
(i) <u>Primer:</u> AMERLOCK 400C	1	100	7	16hrs	#	106	99-974-7400
(ii) <u>Finish:</u> AMERLOCK 400C BS4800 00A01	1	100	7	16hrs	#	106	99-958-6062
<u>R. CABLE LOCKERS & COFFERDAMS</u>							
SIGMAGUARD CSF 650 7443	1	300	3.3	24hrs	20days	143	
<u>S. SEWAGE & WATER BALLAST TANKS.</u>							
<u>Water Ballast Tanks:</u> CORROLESS EPF	1	200	4.8	16hrs	#	80	25-150-0972
CORROLESS RF35	1	200	4.8	16hrs	#	93	99-337-0778
<u>Sewage Tanks:</u> CORROLESS EPF	1	200	4.8	16hrs	#	80	25-150-0972
CORROLESS RF35	1	200	4.8	16hrs	#	93	99-337-0778
<u>Alternative:</u> SIGMAGUARD CSF650 7443	1	300	3.3	24hrs	20days	143	

ANNEXE E
WHOLE SHIP SPECIFICATION
Proposed by

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

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
<u>T. MACHINERY SPACE BILGES</u>							
AMERLOCK 400C WHITE	2	125	7	16hrs	#	106	17-108-8248
<u>U. AVCAT, DIESEL, LUB & HYDRAULIC OIL TANKS SYSTEM</u> <u>DEF-STAN 80-97 (HIGH SOLIDS)</u>							
CORROLESS EPF	1	200	4.8	16 hrs	3 days	80	25-150-0972
CORROLESS RF35	1	200	4.8	16hrs	3 days	93	25-150-0973
<u>V. POTABLE WATER TANKS</u>							
CORROLESS EPF	1	200	4.8	16hrs	3 days	80	25-150-0972
CORROLESS RF35	1	200	4.8	16hrs	3 days	93	99-337-0778
<u>W. AQUEOUS FOAM FORMING FLUID (AFFF) TANKS</u>							
(i) <u>Standard</u> CORROLESS EPF	1	200	4.8	16hrs	3 days	80	25-150-0972
CORROLESS RF35	1	200	4.8	16hrs	3 days	93	99-337-0778
(ii) <u>Alternative:</u> SIGMAGUARD CSF 650 7443	1	300	3.3	24hrs	20days	143	
<u>X. DEMINERALISED WATER TANKS (Max Temperature 90°C)</u>							
(i) <u>Standard</u> CORROLESS EPF	1	200	4.8	16hrs	3 days	80	25-150-0972
CORROLESS RF35	1	200	4.8	16hrs	3 days	93	99-337-0778
(ii) <u>Alternative:</u> SIGMAGUARD CSF 650 7443	1	300	3.3	24hrs	20days	143	
<u>Y. EPOXY HOLDING PRIMER</u>							
SIGMACOVER 280 7417	1	50	11.4	8hrs	6 months	432	99-569-7697
<u>Z. PRIMERS FOR NON-FERROUS METALS & FRP</u>							
(i) <u>Aluminium:</u> AMERLOCK 400C	1	125	7	16hrs	#	106	99-974-7400
(ii) <u>Stainless Steel:</u> SIGMACOVER 280	1	50	11.4	8hrs	#	432	
(iii) <u>Zinc Spray:</u> 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) <u>Indicator coat for FRP:</u> AMERLOCK 400C Green Ral 6011	1	125	7	16hrs	#	106	17-120-4829

ANNEXE E
WHOLE SHIP SPECIFICATION
Proposed by

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.
6. ~ = Use blast primer Y. when appropriate

INTENTIONALLY BLANK



INTENTIONALLY BLANK

ANNEXE F
WHOLE SHIP SPECIFICATIONS
Proposed by

PPG PROTECTIVE & MARINE COATINGS

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

ANNEXE F
WHOLE SHIP SPECIFICATIONS
Proposed by

PPG PROTECTIVE & MARINE COATINGS

<u>Proposed Systems/Materials</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) <u>Standard:</u> SIGMACOVER 456 HS 7712	1	125	5.8	8 hrs	#	227	99-403-5015
(ii) <u>Alternative</u> SIGMASHIELD 220 7922	1	150	5.3	3½ hrs	14 days	262	
J. A/W HULL & SUPERSTRUCTURE FINISH							
(i) <u>Standard:</u> SIGMADUR 540 7740 BS 381C 676 Light Weatherwork Grey	1	60	9.0	8 hrs	#	411	99-236-5744
(ii) <u>Alternative:</u> SIGMA AQUACOVER 45 7250	1	50	6.8	6 hrs	#	10	
(iii) <u>Tie Coat: (if required for Silicone Alkyd Finish)</u>							
(iv) <u>Sealer for RASH:</u> SIGMACOVER 566 7454	1	75	5.7	6 hrs	#	494	
K. FLIGHT & WEATHERDECK SYSTEMS – DEF STAN 80-134							
<u>(a) Hangar Doors</u>							
<u>Primer:</u> SIGMACOVER 456 HS 7712	2	75	9.7	8 hrs	#	277	411
<u>Finish:</u> SIGMADUR 540 7740	1	50	12	8 hrs	#		
<u>(b) Flight Deck - Type 2 Non-skid Finish</u>							
<u>Primer:</u> SIGMARITE FLIGHT DECK PRIMER 7937	1	200	3.9	8 hrs	14 days	216	192
<u>Finish:</u> SIGMARITE FLIGHT DECK COATING 7969 Extra Dark Sea Grey BS 381C 640	2	800	1.0	8 hrs	28 days		
<u>Type 2 Repair Kit:</u>							
<u>(c) Hangar Deck & Weatherdeck - Type 1 Non-Skid Finish</u>							
<u>Primer:</u> SIGMARITE FLIGHT DECK PRIMER 7937	1	200	3.9	8 hrs	14 days	216	227
<u>Hangar Deck:</u> Dark Admiralty Grey BS 381C 632							
<u>Weatherdeck:</u> Extra Dark Sea Grey BS 381C 640							
<u>Type 1 Repair Kit:</u>							
<u>(d) Gloss for Deck Margins:</u>							
L. INTERIOR DRY SPACES (Complete Represervation)							
(i) <u>Standard:</u> <u>Primer</u> SIGMA AQUACOVER 25 7150	1	75	6.6	4 hrs	#	31	99-321-6318
<u>Finish</u> SIGMA AQUACOVER 45 7250 BS 4800 00A01	1	50	6.8	6 hrs	#	17	99-277-8693
(ii) <u>Alternative:</u> <u>Primer</u> SIGMACOVER 456 HS 7712	1	75	9.7	8 hrs	#	227	99-277-8693
<u>Finish</u> SIGMA AQUACOVER 45 7250 BS 4800 00A01	1	50	6.8	6 hrs	#	17	

ANNEXE F
WHOLE SHIP SPECIFICATIONS
Proposed by

PPG PROTECTIVE & MARINE COATINGS

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
M. INTERIOR DRY SPACES (Touch up)							
(i) <u>Standard</u> <u>Primer:</u> SIGMA AQUACOVER 25 7150 <u>Finish:</u> SIGMA AQUACOVER 45 7250 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</u> <u>Primer:</u> SIGMACOVER 456 HS 7712 <u>Finish:</u> SIGMA AQUACOVER 45 7250 BS 4800 00A01	1 1	75 50	9.7 6.8	8 hrs 6 hrs	# #	227 17	99-277-8693
N. INTERIOR WET SPACES (Complete Represervation)							
(i) <u>Standard</u> <u>Primer:</u> SIGMACOVER 456 HS 7712 <u>Finish:</u> SIGMASHIELD 420 7951 BS 4800 00A01	1 1	75 125	9.7 6.5	8 hrs 3½ hrs	# 14 days	227 212	99-549-3974
(ii) <u>Citadel lobby</u> <u>Primer:</u> SIGMACOVER 456 HS 7712 <u>Finish:</u> SIGMASHIELD 420 7951 colour either BS 4800 00A01 or Grey BS 381C 676	1 1	75 150	9.7 5.6	8 hrs 3½ hrs	# 14 days	227 212	99-549-3974
(iii) <u>Magazine</u> <u>Primer:</u> SIGMACOVER 456 HS 7712 <u>Finish:</u> SIGMASHIELD 420 7951 BS 4800 00A01	1 1	75 150	9.7 5.6	8 hrs 3½ hrs	# 14 days	227 212	99-549-3974
(iv) <u>Cleansing Stations</u> <u>Primer:</u> SIGMAGUARD CSF 650 7443 <u>Finish:</u> SIGMAGUARD CSF 650 7443 White	1 1	300 330	3.3 3.3	24 hrs 24 hrs	20 days 20 days	17 17	
O. INTERIOR WET SPACES (Touch up)							
(ii) <u>Standard</u> <u>Primer:</u> SIGMACOVER 456 HS 7712 <u>Finish:</u> SIGMASHIELD 420 7951 BS 4800 00A01	1 1	75 125	9.7 6.5	8 hrs 3½ hrs	# 14 days	227 212	99-549-3974
(ii) <u>Citadel lobby</u> <u>Primer:</u> SIGMACOVER 456 HS 7712 <u>Finish:</u> SIGMASHIELD 420 7951 colour either BS 4800 00A01 or Grey BS 381C 676	1 1	75 150	9.7 5.6	8 hrs 3½ hrs	# 14 days	227 212	99-549-3974
(iii) <u>Magazine</u> <u>Primer:</u> SIGMACOVER 456 HS 7712 <u>Finish:</u> SIGMASHIELD 420 7951 BS 4800 00A01	1 1	75 150	9.7 5.6	8 hrs 3½ hrs	# 14 days	227 212	99-549-3974
(iv) <u>Cleansing Stations</u> <u>Primer:</u> SIGMAGUARD CSF 650 7443 <u>Finish:</u> SIGMAGUARD CSF 650 7443 White	1 1	300 330	3.3 3.3	24 hrs 24 hrs	20 days 20 days	17 17	
P. INTERIOR DECKS							
(i) <u>Standard</u> <u>Primer:</u> SIGMACOVER 456 HS 7712 <u>Finish:</u> SIGMA AQUACOVER 45 7250 BS 4800 Green 14C39	1 1	75 125	9.7 6.7	8 hrs 6 hrs	# #	227 17	99-269-1301
(ii) <u>Cleansing Stations</u> <u>Primer:</u> SIGMAGUARD CSF 650 7443 <u>Finish:</u> SIGMAGUARD CSF 650 7443 BS 4800 14C39	1 1	300 300	3.3 3.3	24 hrs 24 hrs	20 days 20 days	17 17	

ANNEXE F
WHOLE SHIP SPECIFICATIONS
Proposed by

PPG PROTECTIVE & MARINE COATINGS

Proposed Systems/Materials				Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
<u>Q. BATTERY COMPARTMENTS</u>										
(i)	<u>Primer:</u>	SIGMASHIELD 220	7922	1	125	6.4	3½ hrs	14 days	230	99-403-5015
(ii)	<u>Alternative:</u>	SIGMAGUARD CSF 650	7443	1	300	3.3	24 hrs	20 days	17	
(iii)	<u>Finish:</u>	SIGMASHIELD 420 BS4800 00A01	7951	1	125	6.7	3½ hrs	14 days	212	99-723-3658
<u>R. CABLE LOCKERS & COFFERDAMS</u>										
		SIGMAGUARD CSF 650	7443	1	300	3.3	24 hrs	20 days	17	
<u>S. SEWAGE & WATER BALLAST TANKS.</u>										
		SIGMA EDGEGUARD PRIMER	5454	1	150	6.6	24 hrs	20 days	25	99-495-3513
		SIGMA EDGEGUARD White	5428	1	300	3.3	24 hrs	20 days	25	
<u>T. MACHINERY SPACE BILGES</u>										
(i)	<u>Standard:</u>	SIGMA NOVAGUARD	7453	1	300	3.3	24 hrs	2 months	13	
(ii)	<u>Alternative:</u>	SIGMAGUARD CSF 650	7443	1	300	3.3	24 hrs	20 days	17	
<u>U. AVCAT, DIESEL, LUB & HYDRAULIC OIL TANKS SYSTEM</u> <u>DEF STAN 80-97 (HIGH SOLIDS)</u>										
		SIGMAGUARD CSF 650	7443	1	300	3.3	24 hrs	20 days	17	
<u>V. POTABLE WATER TANKS</u>										
		SIGMAGUARD CSF 585	7785	1	300	3.3	24 hrs	20 days	5	
<u>W. AQUEOUS FILM-FORMING FOAM (AFFF) TANKS</u>										
		SIGMAGUARD CSF 650	7443	1	300	3.3	24 hrs	20 days	17	
<u>X. DEMINERALISED WATER TANKS (Max Temperature 90°C)</u>										
		SIGMAGUARD CSF 650	7443	1	300	3.3	24 hrs	20 days	17	
<u>Y. REFIT / MAINTENANCE</u> Epoxy Holding Primer										
		SIGMACOVER 280	7417	1	50	11.4	8 hrs		430	99-569-7697

ANNEXE F
WHOLE SHIP SPECIFICATIONS
Proposed by

PPG PROTECTIVE & MARINE COATINGS

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
<u>Z. PRIMERS FOR NON-FERROUS METALS & FRP</u>							
(i) <u>Aluminium:</u> SIGMACOVER 280 7417	1	50	11.4	8 hrs	3 months	432	99-569-7697
(ii) <u>Stainless Steel:</u> SIGMACOVER 280 7417	1	50	11.4	8 hrs	3 months	432	99-569-7697
(iii) <u>Zinc Spray:</u> SIGMACOVER 280 7417	1	50	11.4	8 hrs	3 months	432	99-569-7697
(iv) <u>Galvanise:</u> SIGMACOVER 280 7417	1	50	11.4	8 hrs	3 months	432	99-569-7697
(v) <u>Indicator coat for FRP:</u>							

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 (NDT). 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

INTENTIONALLY BLANK



INTENTIONALLY BLANK

ANNEXE G
WHOLE SHIP SPECIFICATIONS
Proposed by

LEIGH'S PAINT'S

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
A. <u>UNDERWATER PRIMER (Re-blast) ~</u>							
(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
B. <u>UNDERWATER PRIMER (T/U at Docking)</u>							
(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. <u>ANTIFOULING (Tin Free - 5yr life)</u>							
D. <u>ANTIFOULING (FOUL RELEASE 5+ yr life)</u>							
E. <u>ANTIFOULING (Tin Free 3+ yr life)</u>							
ENVOY TF 500 Red	1	75	8.4	6 hrs	#	390	
ENVOY TF 500 Brown	1	75	8.4	6 hrs	#	390	
F. <u>BOOTTOP ANTIFOULING (Tin Free)</u>							
ENVOY TF 500 BLACK	2	75	8.4	6 hrs	#	390	99-423-7738
G. <u>A/W HULL & SUPERSTRUCTURE PRIMER (Re-blast) ~</u>							
EPIGRIP C425V2	1	100	7.5	4 hrs	#	186	99-786-7949
H. <u>A/W HULL & SUPERSTRUCTURE PRIMER (Touch Up)</u>							
EPIGRIP C425V2	1	100	7.5	4 hrs	#	186	99-786-7949
J. <u>A/W HULL & SUPERSTRUCTURE FINISH</u>							
(i) <u>Standard</u> : LEIGHS A165 Light Weatherwork Grey BS 381C 676	1	35	14.6	16 hrs	#	407	99-982-2604
(ii) <u>Alternative</u> : EPIGRIP C750V2 Light Weatherwork Grey BS 381C 676	1	50	10.6	3 hrs	#	364	99-212-2175
(iii) <u>Tie Coat (if required)</u> : 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

ANNEXE G
WHOLE SHIP SPECIFICATIONS
Proposed by

LEIGH'S PAINT'S

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

ANNEXE G
WHOLE SHIP SPECIFICATIONS
Proposed by

LEIGH'S PAINT'S

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

ANNEXE G
WHOLE SHIP SPECIFICATIONS
Proposed by

LEIGH'S PAINT'S

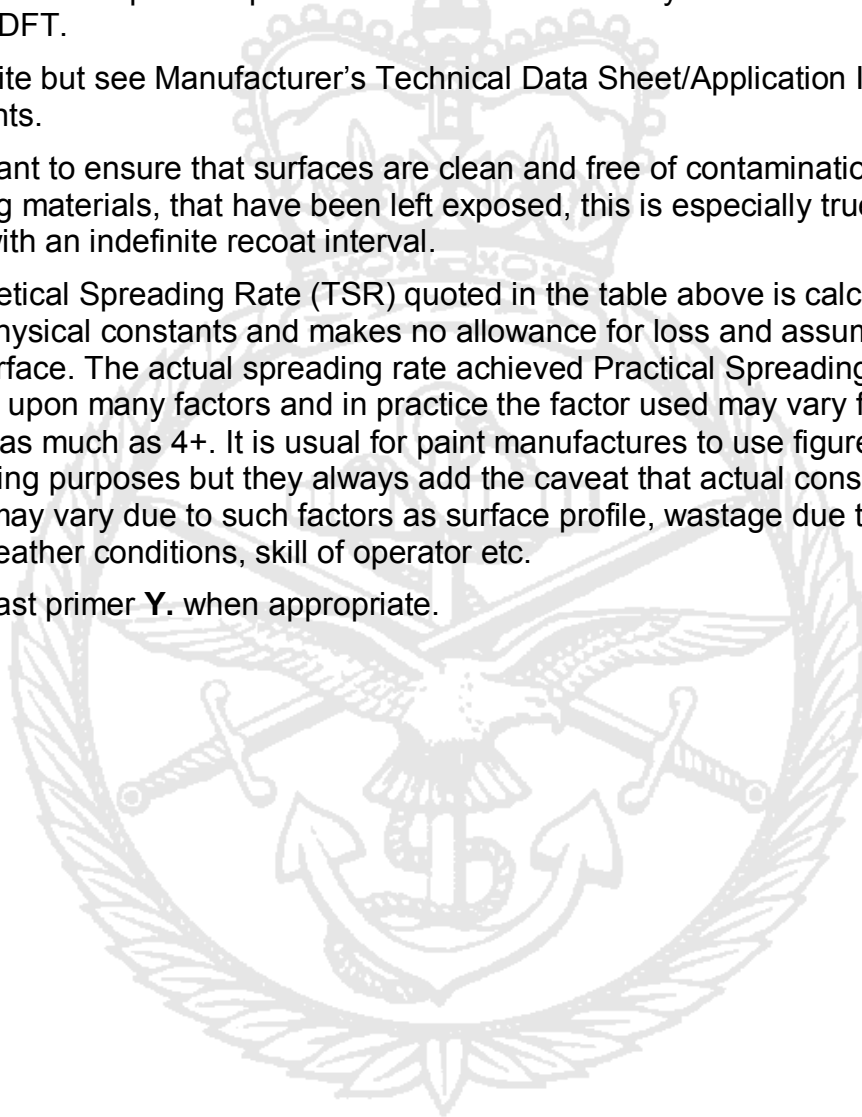
Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
<u>T. MACHINERY SPACE BILGES</u>							
(i) <u>Standard:</u> EPIGRIP L524 WHITE	2	125	5.1	12 hrs	#	296	99-564-2934
(ii) <u>Alternative:</u> EPIGRIP 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>U. AVCAT, DIESEL, LUB & HYDRAULIC OIL TANKS SYSTEM</u> <u>DEF STAN 80-97 (HIGH SOLIDS)</u>							
EPIGRIP H735	1	125	5.4	6 hrs	3 days	270	99-341-1160
EPIGRIP H736	1	125	5.2	6 hrs	3 days	283	99-850-0225
<u>V. POTABLE WATER TANKS</u>							
WATERLINE P300	1	500	2.0	6 hrs	36 hrs	0	
<u>W. AQUEOUS FILM-FORMING FOAM (AFFF) TANKS</u>							
EPIGRIP C251	2	125	5.9	24 hrs	28 days	235	99-284-3464
<u>X. DEMINERALISED WATER TANKS (Max Temperature 90°C)</u>							
EPIGRIP C251	2	125	5.9	24 hrs	28 days	235	99-284-3464
<u>Y. EPOXY HOLDING PRIMER</u>							
METAGARD L574	1	25	11.6	3 hrs	#	594	99-895-9894
<u>Alternative & maintenance:</u> EPIGRIP M111	1	60	9.0	4 hrs	#	383	99-884-5957
<u>Z. PRIMERS FOR NON-FERROUS METALS</u>							
(i) <u>Aluminium:</u> EPIGRIP H795	1	35	10.9	4 hrs	#	575	99-225-0195
(ii) <u>Stainless Steel:</u> EPIGRIP H795	1	35	10.9	4 hrs	#	575	99-225-0195
(iii) <u>Zinc Spray:</u> METAGARD L574	1	25	11.6	3 hrs	#	594	99-895-9894
(iv) <u>Galvanise:</u> EPIGRIP H795	1	35	10.9	4 hrs	#	575	99-225-0195
(v) <u>Indicator Coat for FRP:</u> EPIGRIP C425V2 Off white	1	100	7.5	4 hrs	#	186	99-133-8714

ANNEXE G
WHOLE SHIP SPECIFICATIONS
Proposed by

LEIGH'S PAINT'S

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. # = Indefinite but 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.



INTENTIONALLY BLANK



INTENTIONALLY BLANK

ANNEXE H

WHOLE SHIP STOCK NUMBERS (NSNs)

1. WHOLE SHIP MATERIALS

Material	Supplier	Pack size	NSN
REMOVAL 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 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

ANNEXE H

WHOLE SHIP STOCK NUMBERS (NSNs)

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 BS381C 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 104	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

ANNEXE H

WHOLE SHIP STOCK NUMBERS (NSNs)

Material	Supplier	Pack size	NSN
HEMUCRYL ENAMEL 5810 Mid Brunswick Green BS381C 226	Hempel Paints Limited	5 litres	8010-99-162-2531
HEMUCRYL ENAMEL 5810 Signal Red BS381C 537	Hempel Paints Limited	5 litres	8010-99-250-8046
HEMUCRYL ENAMEL 5810 Wedgwood Blue BS4800 18D43	Hempel Paints Limited	5 litres	8010-99-317-6235
HEMUCRYL ENAMEL 5810 Ash Grey BS4800 00A01	Hempel Paints Limited	5 litres	8010-99-660-9288
HEMUCRYL ENAMEL 5810 Golden Brown BS381C 414	Hempel Paints Limited	5 litres	8010-99-562-6381
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 Wedgwood 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

ANNEXE H

WHOLE SHIP STOCK NUMBERS (NSNs)

Material	Supplier	Pack size	NSN
INTERGARD 740 Red	International Coatings Ltd	5 litres	8010-99-377-5457
INTERGARD 740 White	International Coatings Ltd	5 litres	8010-99-773-8674
INTERGARD 740 Black	International Coatings Ltd	20 litres	8010-99-285-3824
INTERGARD 840 Series Buff	International Coatings Ltd	20 litres	8010-99-909-6023
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 676	International Coatings Ltd	2½ litres	8010-99-700-8410
INTERSHEEN AQUACOAT Ash Grey BS4800 00A01	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 640	International Coatings Ltd	20 litres	8010-99-391-0953
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	International Coatings Ltd	5 litres	8010-99-149-8996
INTERSHIELD 852 Extra Dark Sea Grey BS 381C 640	International Coatings Ltd	5 litres	8010-99-149-8996
INTERSLEEK RAPID Black	International Coatings Ltd	1 litre	8010-99-344-3990
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 Extra Dark Sea Grey BS381C 640	Jotun Paints (Europe) Limited	20 litres	8010-99-226-7300
JOTAMASTIC 87 Extra Dark Sea Grey BS381C 640	Jotun Paints (Europe) Limited	5 litres	8010-99-549-5820
JOTAPROOF TOPCOAT Light Weatherwork Grey BS381C 676	Jotun Paints (Europe) Limited	20 litres	8010-99-310-9229
JOTAPROOF TOPCOAT Light Weatherwork Grey BS381C 676	Jotun Paints (Europe) Limited	5 litres	8010-99-583-1344
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	Jotun Paints (Europe) Limited	5 litres	8010-99-567-4198
POLYMASTIC 2000 Green BS4800 14C39	Jotun Paints (Europe) Limited	5 litres	8010-99-514-9385
PRIMASTIC UNIVERSAL MD	Jotun Paints (Europe) Limited	5 litres	8010-99-509-7172

ANNEXE H

WHOLE SHIP STOCK NUMBERS (NSNs)

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 BS381C 225	Jotun Paints (Europe) Limited	5 litres	8010-99-131-6457
WATERFINE TOPCOAT Lt Weatherwork Grey BS381C 676	Jotun Paints (Europe) Limited	5 litres	8010-99-989-6214
WATERFINE TOPCOAT Mid Brunswick Green BS381C 226	Jotun Paints (Europe) Limited	5 litres	8010-99-873-4271
WATERFINE TOPCOAT Signal Red BS381C 537	Jotun Paints (Europe) Limited	5 litres	8010-99-921-4654
WATERFINE TOPCOAT Wedgwood Blue BS4800 18D43	Jotun Paints (Europe) Limited	5 litres	8010-99-212-5714
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 BS381C 676	Leighs Paints	5 litres	8010-99-131-6908
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 225	Leighs Paints	5 litres	8010-99-313-9445
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

ANNEXE H **WHOLE SHIP STOCK NUMBERS (NSNs)**

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	8010-99-884-5957
EPIGRIP M216 Black	Leighs Paints	5 litres	8010-99-799-8831
EPIGRIP M902 Aluminium	Leighs Paints	2.5 litres	8010-99-421-0972
EPIGRIP C251 White	Leighs Paints	5 litres	8010-99-284-3464
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 White	Maker Coating Systems Ltd	5 litres	8010-17-108-8249
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 White	Maker Coating Systems Ltd	5 litres	8010-17-108-8248
AMERLOCK 400C Ash Grey BS4800 00A01	Maker Coating Systems Ltd	5 litres	8010-99-958-6062
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

ANNEXE H

WHOLE SHIP STOCK NUMBERS (NSNs)

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 225	Maker Coating Systems Ltd	5 litres	8010-99-338-4734
AQUACOVER 45 7250 Lt Weatherwork Grey B381C 676	Maker Coating Systems Ltd	5 litres	8010-99-236-5744
AQUACOVER 45 7250 Mid Brunswick Green BS381C 226	Maker Coating Systems Ltd	5 litres	8010-99-269-1301
AQUACOVER 45 7250 Signal Red BS381C 537	Maker Coating Systems Ltd	5 litres	8010-99-880-0100
AQUACOVER 45 7250 Wedgwood Blue BS4800 18D43	Maker Coating Systems Ltd	5 litres	8010-99-471-2071
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



INTENTIONALLY BLANK

ANNEXE J SUBMARINES

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S1. AREAS BELOW THE WATERLINE							
a) <u>General and Untiled areas</u>							
<u>Chugoku Paints (UK) Ltd</u>							
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	
<u>Hempel Paints Ltd</u>							
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
<u>International Paint Ltd</u>							
INTERGARD 5000	1	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
<u>Jotun Paints (Europe) Limited</u>							
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	
<u>Maker Coating Systems Ltd/PPG</u>							
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	
<u>PPG Protective & Marine Coatings</u>							
SIGMASHIELD 220 7922	1	125	6.4	3½ hrs	14 days	262	99-403-5015
SIGMASHIELD 420 7951	1	150	5.6	3½ hrs	14 days	239	99-723-3658
Antifouling Tie coat SIGMACOVER 525 7902 Black	1	100	7.0	8 hrs	14 days	272	
<u>Leighs Paint</u>							
EPIGRIP M922M Mastic Aluminium	2	200	4.2	4hrs	#	146	99-495-3873
RESISTEX M535 Black	1	75	5.3	2	#	502	99-453-1479
S2. ANTIFOULING							
<u>Hempel Paints Ltd</u>							
OLYMPIC 8695 Black	2	100	5.2	10 hrs	#	390	99-147-9828
<u>International Paint Ltd</u>							
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
<u>PPG Protective & Marine Coatings</u>							
SIGMA ECOFLEET 530 7385 Black	3	100	6.6	6 hrs	#	331	


ANNEXE J SUBMARINES

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S3. HULL & SUPERSTRUCTURE (a) Untiled areas <u>Hempel Paints Ltd</u> HEMPADUR 4588 MIO 1234 HEMPADUR 45182 Black <u>International Paint Ltd</u> INTERGARD 5000 INTERGARD 740M Black <u>Leighs Paint</u> EPIGRIP M922M Mastic Aluminium RESISTEX M535 Black <u>Maker Coating Systems Ltd</u> CORROLESS EPF	 2 1 1 1 2 1 2	 175 75 175 50 200 75 200	 4.6 6.1 4.68 10.02 4.2 5.3 4.8	 8 hrs 6 hrs 12 hrs 16 hrs 4hrs 2 16 hrs	 30 days 3 days 2 months # # # 3 days	 198 490 179 420 146 502 80	 99-149-2439 99-893-9646 99-488-7443 99-495-3873 99-453-1479 25-150-0972
S4. PERISCOPES & Masts Visible portions outside the submarine EPIGRIP H795 IRR Matt BS285	 1 3	 35	 10.9	 4 hrs	 #	 572	 99-225-0195
S5. SUPERSTRUCTURE CASING (a) General steelwork <u>Hempel Paints Ltd</u> HEMPADUR 4588 MIO 1234 HEMPEL'S LOW SHEEN BLACK FINISH 510GB Def Stan 80-111 <u>International Paint Ltd</u> INTERGARD 5000 INTERGARD 740M Black <u>Leighs Paint</u> EPIGRIP M922M Mastic Aluminium RESISTEX M535 Black <u>Maker Coating Systems Ltd/PPG</u> AMERLOCK 400C Black	 1 2 1 1 2 2 2	 175 250 50 200 75 125	 4.6 3.28 10.02 4.2 5.3 7	 8 hrs 12 hrs 16 hrs 4hrs 2 16 hrs	 30 days 2 months # # # #	 198 179 420 146 502 106	 99-149-2439 99-000-5256 99-488-7443 99-495-3873 99-453-1479 17-106-6001

ANNEXE J SUBMARINES

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S6. WALKWAYS ON STEEL CASING							
<u>Chugoku Paints (UK) Ltd</u>							
UMEGUARD HS SILVER	1	125	7.4	20 hrs	30 days	158	99-763-0243
CAMIDECK FINISH TYPE 1 Black	2	190	2.84	16 hrs	#	374	99-543-0790
<u>Hempel Paints Ltd</u>							
HEMPADUR 4588 MIO 1243	1	100	8.2	7hrs	6 hrs*	168	99-149-2439
HEMPEL'S NON SKID 4534GB TYPE 1 Black	2	200	3.2	6 hrs	30 days	347	99-480-7979
<u>International Paint Ltd</u>							
INTERGARD 5000	1	150	5.47	12 hrs	4 days	179	99-000-5256
INTERSHIELD 852 TYPE 1 Black	2	200	1.92	12 hrs	#	134	99-250-1864
<u>Maker Coating Systems Ltd/PPG</u>							
AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400
AMERLOCK 400 NS TYPE 1 Black	2	300	4	16 hrs	#	106	99-184-8542
<u>Leighs Paint</u>							
EPIGRIP C425V2	1	125	76.0	5 hrs	#	186	99-786-7949
EPIDEK M377 TYPE 1 Black	2	250	2.5	4 hrs	#	330	99-777-8692
<u>PPG Protective & Marine Coatings</u>							
SIGMASHIELD 220 7922	1	125	6.4	3½ hrs	14 days	262	99-403-5015
SIGMACOVER 456HS 7712 TYPE 1 Black	2	125	5.8	8 hrs	#	156	
S7. INTERNAL DRY SPACES							
<u>Chugoku Paints (UK) Ltd</u>							
UMEGUARD HS SILVER	1	125	7.4	20 hrs	30 days	158	99-763-0243
CAMACRYL FINISH White	2	40	11	24 hrs	#	33	99-380-7010
<u>Hempel Paints Ltd</u>							
HEMUDUR PRIMER 1850	1	60	8.8	6 hrs	1 week	25	99-876-8090
HEMUCRYL ENAMEL 5810 White	2	30	13.7	6 hrs	2 hrs	150	99-229-0228
<u>International Paint Ltd</u>							
INTERGARD 5000 BS 4800 00A01	1	125	6.56	12 hrs	#	179	99-000-5256
INTERCRYL 700 Finish White	2	35	11.42	60 mins	#	50	99-979-7888
Alternative Finish: INTERSHEEN 5579	2	35	11.29	60 mins	#	12	
<u>Jotun Paints (Europe) Limited</u>							
WATERFINE PRIMER	2	100	4.6	1.5 hrs	#	100	99-462-9708
WATERFINE TOPCOAT White	2	50	7.2	1.5 hrs	#	195	99-372-9140
<u>Maker Coating Systems Ltd/PPG</u>							
AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400
AMERCOAT 300A White	2	50	10.4	16 hrs	#	0	17-108-8249
<u>Maker Coating Systems Ltd</u>							
SIGMACRYLIC AQUACOVER 25 7150	2	75	6.6	4 hrs	#	31	99-321-6318
SIGMACRYLIC AQUACOVER 45 7520 White	2	50	6.8	6 hrs	#	17	99-225-7360
<u>Leighs Paint</u>							
EPIGRIP C425V2	1	125	6.0	5 hrs	#	186	99-786-7949
ENVIROGARD M770 White	2	25	15.6	3 hrs	#	78	99-231-3852

ANNEXE J SUBMARINES

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

ANNEXE J SUBMARINES

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S11. INTERIOR PRESSURE HULL SURFACE Emergency Cooling Tanks							
a) <u>S Class Soft and Saddle Tanks</u>							
<i>Hempel Paints Ltd</i>							
GALVOSIL 1570 – Approved by Rolls Royce	1	75	8.53	36 hrs	#	535	99-593-8923
<i>International Paint Ltd</i>							
INTERGARD 5000 – Pending Approval	2	125	6.56	12 hrs	3 months	179	99-000-5256
b) <u>Trafalgar Class Hard Tank</u>							
<i>International Paint Ltd</i>							
INTERGARD 5000 – Pending Approval	2	125	6.56	12 hrs	3 months	179	99-000-5256
<i>Leighs Paint</i>							
EPIGRIP C251 – Pending Approval	2	125	5.9	24 hrs	28 days	235	99-284-3464
<i>Maker Coating Systems Ltd</i>							
SIGMA PHENGUARD 930 (Primer) – Approved by Rolls Royce	1	100	6.6	36 hrs	21 days	300	99-667-6118
SIGMA PHENGUARD 935 (Coating) – Approved by Rolls Royce	1	100	6.6	24 hrs	21 days	300	99-925-0882
SIGMA PHENGUARD 940 (Finish) – Approved by Rolls Royce	1	100	6.6	24 hrs	21 days	300	99-976-1657
SIGMAGUARD 795 (Maintenance)	2	150	5.0	10hrs	21 days	273	
<i>Maker Coating Systems Ltd</i>							
CORROLESS EPF – Approved by Rolls Royce	1	200	4.8	16hrs	3 days	80	25-150-0972
CORROLESS RF35 – Approved by Rolls Royce	1	200	4.8	16hrs	3 days	93	99-337-0778
c) <u>Trafalgar Class Jacket Tank</u>							
<i>International Paint Ltd</i>							
INTERGARD 5000 - Approved by Rolls Royce	2	125	6.56	12 hrs	3 months	179	99-000-5256
<i>Maker Coating Systems Ltd</i>							
CORROLESS EPF – Approved by Rolls Royce	1	200	4.8	16hrs	3 days	80	25-150-0972
CORROLESS RF35 – Approved by Rolls Royce	1	200	4.8	16hrs	3 days	93	99-337-0778
AMERLOCK 400C – Approved by Rolls Royce	2	125	7	16 hrs	3 days	106	17-108-8248
<i>Leighs Paint</i>							
EPIGRIP M922	2	200	4.2	4hrs	#	143	99-834-8384
EPIGRIP C251 – Pending Approval	2	125	5.9	24 hrs	28 days	235	99-284-3464

ANNEXE J SUBMARINES

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S11. (cont) INTERIOR SURFACES							
d) <u>Vanguard Class High Pressure Decay Heat Removal Tank (HPDR)</u>							
<u>International Paint Ltd</u>							
INTERGARD 5000 – Pending Approval	2	125	6.56	12 hrs	3 months	179	99-000-5256
<u>Leighs Paint</u>							
EPIGRIP C251 – Pending Approval	2	125	5.9	24 hrs	28 days	235	99-284-3464
<u>Maker Coating Systems Ltd</u>							
CORROLESS EPF – Pending Approval	1	200	4.8	16hrs	3 days	80	25-150-0972
CORROLESS RF35 – Pending Approval	1	200	4.8	16hrs	3 days	93	99-337-0778
AMERLOCK 400C – Pending Approval	2	125	7	16 hrs	3 days	106	17-108-8248
<u>Maker Coating Systems Ltd</u>							
SIGMA PHENGUARD 930 (Primer) – Approved by Rolls Royce	1	100	6.6	36 hrs	21 days	315	99-667-6118
SIGMA PHENGUARD 935 (Coating) – Approved by Rolls Royce	1	100	6.6	24 hrs	21 days	315	99-925-0882
SIGMA PHENGUARD 940 (Finish) – Approved by Rolls Royce	1	100	6.6	24 hrs	21 days	315	99-976-1657
SIGMAGUARD 795 (Maintenance)	2	150	5.0	10hrs	21 days	273	
EXTERNAL SURFACES							
<u>International Paint Ltd</u>							
INTERGARD 5000 – Pending Approval	2	125	6.56	12 hrs	3 months	179	99-000-5256
<u>Leighs Paint</u>							
EPIGRIP C251 – Pending Approval	2	125	5.9	24 hrs	28 days	235	99-284-3464
<u>Maker Coating Systems Ltd</u>							
CORROLESS EPF	1	200	4.8	16hrs	3 days	80	25-150-0972
CORROLESS RF35	1	200	4.8	16hrs	3 days	93	99-337-0778
AMERLOCK 400C	2	125	7	16 hrs	3 days	106	17-108-8248
<u>Maker Coating Systems Ltd</u>							
SIGMA PHENGUARD 930 (Primer) – Approved by Rolls Royce	1	100	6.6	36 hrs	21 days	315	99-667-6118
SIGMA PHENGUARD 935 (Coating) – Approved by Rolls Royce	1	100	6.6	24 hrs	21 days	315	99-925-0882
SIGMA PHENGUARD 940 (Finish) – Approved by Rolls Royce	1	100	6.6	24 hrs	21 days	315	99-976-1657
SIGMAGUARD 795 (Maintenance)	2	150	5.0	10hrs	21 days	273	
e) <u>Astute Class</u>							
<u>Advanced Polymer Coatings</u>							
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	

ANNEXE J SUBMARINES

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S12. REACTOR COMPARTMENT							
a) Interior surfaces							
<u>Hempel Paints Ltd</u>							
HEMPADUR NPP 55672-10000 White	3	75	8.5	24 hrs	21 days	327	
<u>International Paint Ltd</u>							
INTERGARD 5000	1	125	6.56	12 hrs	#	179	99-000-5256
INTERGARD 1735 White	2	50	11.20	12 hrs	#	132	
<u>Maker Coating Systems Ltd/PPG</u>							
AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400
AMERCOAT 300A White	2	50	10.4	16 hrs	#	0	17-108-8249
<u>Leighs Paint</u>							
EPIGRIP C400V3	1	200	9.3	5 hrs	#	257	
EPIGRIP H766 White	1	50	14	5 hrs	#	395	99-623-9946
<u>HEAT RESISTANT ALUMINIUM >250°C</u>							
<u>Firwood Paints Ltd</u>							
FIRGLO 64	1-2	25	15	4 hrs	#	620	
<u>International Paint Ltd</u>							
INTERTHERM 50	1-2	25	18	12hrs	#	495	99-257-1455
b) External surfaces							
See S1. but note dft not to exceed that stated in BR3939 Section 12							
S13. INTERIOR DECKS							
<u>Leighs Paint</u>							
EPIGRIP C425V2	1	175	4.3	8 hrs	#	186	99-786-7949
BIOGARD M630V2	1	75	6.8	24 hrs	#	0	99-255-5237
<u>International Paint Ltd</u>							
INTERGARD 5000	1	125	6.56	12 hrs	#	179	99-000-5256
INTERGARD 1735	1	50	11.2	12 hrs	#	132	99-255-0527
<u>Maker Coating Systems Ltd/PPG</u>							
AMERLOCK 400C	2	125	7	16 hrs	#	106	99-383-2335

ANNEXE J SUBMARINES

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S14. BATTERY COMPARTMENTS							
<u>Chugoku Paints (UK) Ltd</u>							
UMEGARD HS SILVER	1	125	7.12	20 hrs	7 days	108	99-264-0145
AQUALIFE GLOSS FINISH BS4800 00A01	2	40	10	16 hrs	7 days	132	99-757-9334
<u>Hempel Paints Ltd</u>							
HEMPADUR 4588	1	150	5.5	5 hrs	#	198	99-803-7233
HEMPEL'S WATERBASED EPOXY 4858 BS4800 00A01	1	80	6.7	12 hrs	15 days	36	99-988-2715
<u>International Paint Ltd</u>							
INTERGARD 5000 BS4800 00A01	1	125	6.56	12 hrs	#	179	99-000-5256
<u>Jotun Paints (Europe) Limited</u>							
POLYMASTIC 2000	1	200	4.8	9 hrs	#	80	99-395-8448
POLYMASTIC 2000 BS4800 00A01	1	200	4.8	9 hrs	#	80	99-665-9772
<u>Maker Coating Systems Ltd/PPG</u>							
AMERLOCK 400C	1	125	7	16 hrs	#	106	99-974-7400
AMERCOAT 300A BS4800 00A01	1	50	10.4	16 hrs	#	0	99-535-8577
<u>Leighs Paint</u>							
EPIGRIP C425V2	1	100	7.5	4 hrs	#	186	99-786-7949
BIOGARD M630V2 BS4800 00A01	1	75	6.8	24 hrs	#	0	99-535-5105
S15. MACHINERY SPACE BILGES & MOUNTED MACHINERY RAFTS							
<u>Chugoku Paints (UK) Ltd</u>							
UMEGARD HS SILVER	1	125	6.5	15 hrs	10 days	108	99-264-0146
UMEGARD HS GREY	1	125	6.5	15 hrs	10 days	158	99-126-9478
<u>Finish for Mounted Machinery Rafts</u>							
CAMACRYL FINISH MAC Canary BS381C 309	1	40	11	24 hrs	#	33	99-446-0554
<u>Hempel Paints Ltd</u>							
HEMPADUR 4588 WHITE	1	150	5.5	5 hrs	#	220	99-264-0387
<u>Finish for Mounted Machinery Rafts</u>							
HEMUCRYL ENAMEL 5810 Canary BS381C 309	1	30	13.7	6 hrs	#	70	99-858-1263
<u>International Paint Ltd</u>							
INTERGARD 5000	1	175	4.68	12 hrs	3 months	179	99-000-5256
<u>Finish for Mounted Machinery Rafts</u>							
INTERCRYL 700 Yellow RAL 1018	1	35	11.42	6 hrs	#	50	99-774-1224
<u>Jotun Paints (Europe) Limited</u>							
JOTACOTE UNIVERSAL	1	125	5.8	4 hrs	#	240	
JOTAPROOF TOPCOAT	1	60	10.5	4 hrs	#	310	
<u>Finish for Mounted Machinery Rafts</u>							
WATERFINE TOPCOAT Canary BS381C 309	1	40	9.2	8 hrs	#	105	99-352-4369

ANNEXE J SUBMARINES

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S15. MACHINERY SPACE BILGES & MOUNTED MACHINERY RAFTS (cont.)							
<i>Maker Coating Systems Ltd/PPG</i>							
CORROLESS EPF	1	200	4.8	16 hrs	3 days	80	25-150-0972
<u>Finish for Mounted Machinery Rafts</u>							
AMERLOCK 400C YELLOW	1	125	7	16 hrs	#	106	
<i>Maker Coating Systems Ltd</i>							
SIGMA NOVAGARD 840 7468	1	400	2.5	24 hrs	2 months	13	
<u>Finish for Mounted Machinery Rafts</u>							
SIGMA AQUACOVER 45 7250 Canary BS381C 309	1	50	6.8	6 hrs	#	17	99-182-2670
<i>Leighs Paint</i>							
EPIGRIP M902	1	125	6.0	6.5 hrs	#	219	99-421-0972
EPIGRIP L524	1	125	5.1	12 hrs	#	296	99-564-2934
<u>Finish for Mounted Machinery Rafts</u>							
ENVIROGARD M770 Canary BS381C 309	1	25	15.6	3 hrs	#	78	99-726-4136
S16. OIL TANKS. LUBE OIL. HYDRAULIC. LP AIR TANKS DEF STAN 80-97 (HIGH SOLIDS)							
<i>Chugoku Paints (UK) Ltd</i>							
CLEANKEEP 5000*	1	300	3.33	48 hrs	14 days	0	
<i>Hempel Paints Ltd</i>							
HEMPADUR 85671	3	100	6.8	36 hrs	5 days	320	
<i>International Paint Ltd</i>							
INTERLINE 850 (TLA850/A)	2	125	6.08	8 hrs	30 days	212	
<i>Jotun Paints (Europe) Limited</i>							
TANKGUARD STORAGE	2	125	5.0	10 hrs	30 days	261	
<i>Maker Coating Systems Ltd</i>							
CORROLESS EPF	1	200	4.8	16 hrs	3 days	80	25-150-0972
CORROLESS RF35 Off White	1	200	4.8	16 hrs	3 days	93	25-150-0973
<i>Maker Coating Systems Ltd</i>							
SIGMAGUARD CSF 650 7443	1	300	3.3	24 hrs	20 days	17	
<i>Leighs Paint</i>							
EPIGRIP H735	1	125	5.4	6	3 days	270	99-341-1160
EPIGRIP H736	1	125	5.2	6	3 days	283	99-850-0225

ANNEXE J SUBMARINES

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S17. POTABLE WATER TANKS							
<i>Chugoku Paints (UK) Ltd</i>							
CLEENKEEP 5000*	1	300	3.33	48 hrs	14 days	0	
<i>Hempel Paints Ltd</i>							
HEMPADUR 85671	3	100	6.8	36 hrs	5 days	320	
<i>International Paint Ltd</i>							
INTERLINE 925	1	300	3.35	48 hrs	3 days	1	
<i>Jotun Paints (Europe) Limited</i>							
TANKGUARD DW	2	150	6.7	12 hrs	5 days	2	
<i>Maker Coating Systems Ltd</i>							
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
<i>Maker Coating Systems Ltd</i>							
SIGMAGUARD CSF 650 7443	1	300	3.3	24 hrs	20 days	17	
<i>Leighs Paint</i>							
HYDROGARD H20V2	1	400	2.5	12hrs	36 hrs	0	
S18. SLOP DRAIN TANKS							
<i>Leighs Paint</i>							
EPIGRIP C251	2	125	5.9	24 hrs	28 days	235	99-284-3464
S19. AFFF TANKS							
<i>Chugoku Paints (UK) Ltd</i>							
CLEENKEEP 5000*	1	300	3.33	48 hrs	14 days	0	
<i>Hempel Paints Ltd</i>							
HEMPADUR MULTI STRENGTH 3553	2	250	4.0	24 hrs	5 days	0	
<i>International Paint Ltd</i>							
INTERLINE 704	2	125	4.24	23 hrs	21 days	385	
<i>Jotun Paints (Europe) Limited</i>							
TANKGUARD DW	2	150	6.7	12 hrs	5 days	2	
<i>Maker Coating Systems Ltd</i>							
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

ANNEXE J SUBMARINES

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S19. AFFF TANKS (cont.)							
<i>Maker Coating Systems Ltd</i>							
SIGMAGUARD CSF 585 7785	1	300	3.33	24 hrs	20 days	5	
<i>Leighs Paint</i>							
EPIGRIP C251	2	125	5.9	24 hrs	28 days	235	99-284-3464
S20. DEMINERALISED WATER TANKS							
<i>Chugoku Paints (UK) Ltd</i>							
CLEENKEEP 5000*	1	300	3.33	48 hrs	14 days	0	
<i>Hempel Paints Ltd</i>							
HEMPADUR MULTI STRENGTH 3553	2	250	4.0	24 hrs	5 days	0	
<i>International Paint Ltd</i>							
INTERLINE 925 (THA127/A)	1	300	3.33	18 hrs	3 days	1	
<i>Jotun Paints (Europe) Limited</i>							
TANKGUARD STORAGE	3	125	5.0	10 hrs	30 days	310	
<i>Maker Coating Systems Ltd</i>							
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
<i>Maker Coating Systems Ltd</i>							
SIGMAGUARD CSF 650 7443	1	300	3.3	24 hrs	20 days	17	
<i>Leighs Paint</i>							
EPIGRIP C251	2	125	5.9	24 hrs	28 days	235	99-284-3464

ANNEXE J SUBMARINES

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S21. HOLDING PRIMER							
a) <u>Blasted Steelwork</u>							
<u>Chugoku Paints (UK) Ltd</u>							
NZ PRIMER S	1	25	15.9	16 hrs	#	641	
<u>Hempel Paints Ltd</u>							
HEMPADUR 1557	1	40	13.5	#	#	430	99-943-1152
<u>International Paint Ltd</u>							
INTERGARD 269	1	30	15.67	6 hrs	#	411	99-983-0743
<u>Jotun Paints (Europe) Limited</u>							
MUKI EPS	1	20	12.5	7 hrs	7 days	610	
<u>Maker Coating Systems Ltd/PPG</u>							
SIGMACOVER 280 7417	1	50	11.4	8 hrs	3 months	432	99-569-7697
<u>Leighs Paint</u>							
METAGARD L574	1	25	11.6	3 hrs	#	594	99-895-9894
b) <u>Damp Surfaces</u>							
<u>Hempel Paints Ltd</u>							
HEMPADUR 1557	1	40	13.5	#	#	430	99-943-1152
<u>Leighs Paint</u>							
EPIGRIP M111	1	60	9.0	4hrs	#	383	99-884-5957

ANNEXE J SUBMARINES

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S22. PRIMERS FOR NON FERROUS METALS							
<u>Chugoku Paints (UK) Ltd</u>							
(a) <u>Aluminium</u> : ALP 500	1	50	11.6	10 hrs	#	414	99-967-8636
(b) <u>Stainless Steel</u> : UMEGUARD HS	1	125	7.40	20 hrs	30 days	158	99-126-9478
(c) <u>Zinc Spray</u> : GALVANITE 200	1	30	14.10	4 hrs	30 days	587	99-290-5829
(d) <u>Galvanise</u> : GALVANITE 200	1	30	14.10	4 hrs	30 days	587	99-290-5829
<u>Hempel Paints Ltd</u>							
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) <u>Zinc Spray</u> HEMUCRYL TIE COAT 1820 (1 pack) or <u>Galvanise</u> 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
e) <u>Indicator coat for FRP</u> GELPROTECT SFE200 Cream	1	200	5.0	8 hrs	5 days	10	99-517-4318
<u>International Paint Ltd</u>							
a) – d) <u>Aluminium, Stainless steel, Zinc Spray or Galvanised</u>							
<u>Standard</u> INTERGARD 269		30	15.67	6 hrs	#	411	99-983-0743
<u>Alternative</u> INTERGARD 276		30	15.67	6 hrs	#	411	
<u>Jotun Paints (Europe) Limited</u>							
a) <u>Aluminium</u> : WATERFINE PRIMER	1	60	7.6	1.5 hrs	#	100	99-462-9708
b) <u>Stainless Steel</u> : WATERFINE PRIMER	1	60	7.6	1.5 hrs	#	100	99-462-9708
c & d) <u>Zinc Spray/Galvanise</u> : WATERFINE PRIMER	1	60	7.6	1.5 hrs	#	100	99-462-9708
e) <u>FRP Indicator Coat</u> : PENGUARD HB white	1	100	5.4	8 hrs	#	390	

ANNEXE J SUBMARINES

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S22. PRIMERS FOR NON FERROUS METALS (cont)							
<u>Maker Coating Systems Ltd/PPG</u>							
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) <u>Indicator Coat for FRP</u> : AMERLOCK 400C Green RAL 6011	1	125	7	16 hrs	#	106	17-120-4829
<u>Leighs Paint</u>							
a) <u>Aluminium</u> : EPIGRIP H795	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) <u>Indicator Coat for FRP</u> : EPIGRIP C425V2 Off White	1	100	7.5	4 hrs	#	186	99-133-8714
S23. HIGH EROSION AREAS							
<u>Hempel Paints Ltd</u>							
HEMPADUR MULTISTRENGTH GF3597	1	300	2.9	16 hrs	30 days	180	
<u>International Paint Ltd</u>							
INTERZONE 505	1	300	3.0	6	4 days	157	
<u>Maker Coating Systems Ltd</u>							
CORROLESS EPF	2	200	4.8	16	3 days	80	99-212-7555
<u>Leighs Paint</u>							
EPIGRIP M922	1	400	2.1	3 hrs	#	143	99-834-8384
S24. BENEATH TILING							
<u>Wessex Resins</u>							
UW46 Primer							99-593-3008
UW 46 Adhesive							99-297-7593

ANNEXE J SUBMARINES

Proposed Systems/Materials	Number of Coats	NDFT per coat microns	Theo SR m ² /litre	Min Recoat Interval	Max Recoat Interval	VOC gms per ltr	NATO Stock Number
S25. SYSTEM FOR COATING NATURAL RUBBER MOUNTS Applied by Mount supplier not to be touched up once fitted <u>Dunlop Precision Rubber Ltd</u> DUNLOP NPL 100 or <u>Maker Coating Systems Ltd</u> GUMMIPAINT - ORANGE	2	25					99-541-9576
	2	35					Not required
S26. SYSTEM FOR COATING INTERNAL NUTS AND BOLTS AND TO FILL GAPS BETWEEN CANNING PLATES AND LEAD <u>Maker Coating Systems Ltd</u> CORROLESS CCI 355 CORROSION INHIBITOR (HD GREASE)	1	N/A			N/A	N/A	99-676-5736
S27. SEA WATER TANKS <u>Chugoku Paints (UK) Ltd</u> (i) UMEGUARD HS SILVER* UMEGUARD HS GREY or (ii) NOVA 2000 <u>Hempel Paints Ltd</u> HEMPADUR 4507 <u>International Paint Ltd</u> INTERGARD 5000 <u>Jotun Paints (Europe) Limited</u> BALLOXY HB LIGHT <u>Maker Coating Systems Ltd</u> CORROLESS EPF <u>Maker Coating Systems Ltd/ PPG</u> SIGMAGUARD CSF650 <u>Leighs Paint</u> EPIGRIP L524	1 1 2	125 125 125	6.50 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
	2	150	4.8	16 hrs	10 days	270	99-149-2439
	2	125	6.56	12 hrs	3 months	179	99-000-5256
	2	150	5.5	10 hrs	#	150	17-108-7824
	2	200	4.8	16 hrs	3 days	80	25-150-0972
	1	300	3.3	24 hrs	20 days	143	
	2	125	5.1	12 hrs	#	296	99-564-2934

ANNEXE J SUBMARINES

Supplier	Material	BR Class	VOC Compliant	NSN
Chugoku Paints (UK) Ltd	CAMACRYL FINISH MAC White	See 4.3	86 g/l	8010-99-380-7010
Chugoku Paints (UK) Ltd	UMEGUARD HS SILVER	See 4.3	158 g/l	8010-99-264-0145
Chugoku Paints (UK) Ltd	CAMACRYL FINISH MAC Ash Grey BS4800 00A01	See 4.3	86 g/l	8010-99-676-4126
Chugoku Paints (UK) Ltd	ALP 500	See 4.3	414 g/l	8010-99-967-8636
Chugoku Paints (UK) Ltd	GALVANITE 200 White	See 4.3	495 g/l	8010-99-995-4247
Chugoku Paints (UK) Ltd	GALVANITE 200 White	See 4.3	495 g/l	8010-99-290-5829
Chugoku Paints (UK) Ltd	UMEGUARD HS Grey	See 4.3	158 g/l	8010-99-126-9478
Chugoku Paints (UK) Ltd	UMEGUARD HS White	See 4.3	158 g/l	8010-99-564-2409
Chugoku Paints (UK) Ltd	CAMACRYL FINISH MAC Canary BS381C 309	See 4.3	86 g/l	8010-99-446-0554
Chugoku Paints (UK) Ltd	CAMACRYL FINISH MAC Wedgewood Blue BS4800 18D43	See 4.3	86 g/l	8010-99-665-3660
Chugoku Paints (UK) Ltd	CAMACRYL FINISH MAC Dark Blue BS4800 18C39	See 4.3	86 g/l	8010-99-862-0034
Chugoku Paints (UK) Ltd	CAMACRYL FINISH MAC Mid Brunswick Green BS381C 226	See 4.3	86 g/l	8010-99-794-2129
Chugoku Paints (UK) Ltd	CAMACRYL FINISH MAC Azure Blue BS381C 104	See 4.3	86 g/l	8010-99-366-5444
Chugoku Paints (UK) Ltd	UMEGUARD HS SILVER	See 4.3	158 g/l	8010-99-763-0243
Dunlop Precision Rubber Ltd (Dunlop Aerospace Ltd)	NPL100 ORANGE	See 4.3	No	8010-99-541-9576
Hempel UK Limited	HEMPADUR 15570 LIGHT GREY 12430	See 4.3	430 g/l	8010-99-170-5097
Hempel UK Limited	HEMPADUR 4515o White	See 4.3	180 g/l	8010-99-411-0494
Hempel UK Limited	HEMPADUR 4515o	See 4.3	180 g/l	8010-99-702-5502
Hempel UK Limited	HEMPADUR 4515o Red 50630	See 4.3	180 g/l	8010-99-535-5832
Hempel UK Limited	HEMPADUR 1555 0 Off White 1163	See 4.3	515 g/l	8010-99-870-0653
Hempel UK Limited	HEMPADUR 1555 0	See 4.3	515 g/l	8010-99-700-4191
Hempel UK Limited	HEMUDUR 1850 Grey 12170	See 4.3	85 g/l	8010-99-867-8090
Hempel UK Limited	HEMPADUR 1555 0 Off White 1163	See 4.3	515 g/l	8010-99-700-4191
Hempel UK Limited	HEMPELS WATER BASED EPOXY 48580 BS4800 14C39 (Green)	See 4.3	25 g/l	8010-99-279-8221
Hempel UK Limited	HEMPELS WATER BASED EPOXY 48580 BS381C 676 (Light Weatherwork Grey)	See 4.3	25 g/l	8010-99-976-9118
Hempel UK Limited	HEMPELS WATER BASED EPOXY 48580 Black	See 4.3	25 g/l	8010-99-864-5046
Hempel UK Limited	HEMPELS WATER BASED EPOXY 48580 BS4800 00A01	See 4.3	25 g/l	8010-99-988-2715
Hempel UK Limited	HEMPELS NON-SKID 4534GB Type 1 Black	See 4.3	347 g/l	8010-99-480-7979
Hempel UK Limited	HEMUCRYL TI-COAT 1820 0 Red 50710	See 4.3	118 g/l	8010-99-199-2908
Hempel UK Limited	HEMPELS GALVOSIL 15700	See 4.3	535 g/l	8010-99-593-8923
Hempel UK Limited	HEMUCRYL ENAMEL 5810 White	See 4.3	150 g/l	8010-99-299-0228
Hempel UK Limited	HEMUCRYL ENAMEL 5810 Dark Blue BS4800 18C39	See 4.3	150 g/l	8010-99-290-5925
Hempel UK Limited	HEMUCRYL ENAMEL 5810 Wedgewood Blue BS4800 18D43	See 4.3	150 g/l	8010-99-317-6235
Hempel UK Limited	HEMUCRYL ENAMEL 5810 Canary BS381C 309	See 4.3	150 g/l	8010-99-858-1263
Hempel UK Limited	HEMUCRYL ENAMEL 5810 Lt Brunswick Green BS381C 225	See 4.3	150 g/l	8010-99-831-8959
Hempel UK Limited	HEMUCRYL ENAMEL 5810 Azure Blue BS381C 104	See 4.3	150 g/l	8010-99-382-4025
Hempel UK Limited	HEMUCRYL ENAMEL 5810 Mid Brunswick Green BS381C 226	See 4.3	150 g/l	8010-99-162-2531
Hempel UK Limited	HEMUCRYL ENAMEL 5810 BS4800 00A01	See 4.3	150 g/l	8010-99-660-9288
Hempel UK Limited	HEMUCRYL ENAMEL 5810 Signal Red BS381C 537	See 4.3	150 g/l	8010-99-250-8046
Hempel UK Limited	HEMUCRYL ENAMEL 5810 Black	See 4.3	150 g/l	8010-99-175-1334
Hempel UK Limited	HEMUCRYL ENAMEL 5810 BS381C 676 (Light Weatherwork Grey)	See 4.3	150 g/l	8010-99-149-2439
Hempel UK Limited	HEMUCRYL PRIMER 1810	See 4.3	200 g/l	8010-99-909-6026
International Paint Ltd	INTERGARD FWA274/FWA278 Red	See 4.3	166 g/l	8010-99-337-6056
International Paint Ltd	INTERGARD 5000 BS4800 00A01 Dawn Grey	See 4.3	179 g/l	8010-99-000-5256
International Paint Ltd	INTERGARD 1735 WB QDE000/QDA049 BS4800 00A01	See 4.3	45 g/l	8010-99-255-0527
International Paint Ltd	INTERGARD 1735 WB Dark Sea Grey BS381C 640	See 4.3	132 g/l	8010-99-702-0607
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
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	50 g/l	8010-99-979-7888
International Paint Ltd	INTERCRYL 700 Yellow RAL 1018	See 4.3	50 g/l	8010-99-774-1224
International Paint Ltd	INTERSHIELD 852 NON-SKID Type 1 Black	See 4.3	134 g/l	8010-99-250-1864

ANNEXE J SUBMARINES

Supplier	Material	BR Class	VOC Compliant	NSN
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 White	See 4.3	128 g/l	8010-99-231-3852
Leighs Paints	ENVIROGARD M770 Black	See 4.3	128 g/l	8010-99-768-1426
Leighs Paints	ENVIROGARD M770 Signal Red BS381C 537	See 4.3	128 g/l	8010-99-225-7155
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	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	ENVIROGARD M770 Mid Brunswick Green BS381C 226	See 4.3	128 g/l	8010-99-862-5170
Leighs Paints	ENVIROGARD M770 Grey BS381C 676	See 4.3	128 g/l	8010-99-833-4765
Leighs Paints	ENVIROGARD M770 Wedgwood Blue BS4800 18D43	See 4.3	128 g/l	8010-99-723-3651
Leighs Paints	EPIDEK L716 Black	See 4.3	420 g/l	8010-99-225-0689
Leighs Paints	EPIDEK M377 Non-Skid Type 1 Black	See 4.3	330 g/l	8010-99-777-8692
Leighs Paints	EPIGRIP H795	See 4.3	575 g/l	8010-99-225-0195
Leighs Paints	EPIGRIP C251	See 4.3	235 g/l	8010-99-284-3464
Leighs Paints	EPIGRIP C425V2	See 4.3	186 g/l	8010-99-786-7949
Leighs Paints	EPIGRIP M111	See 4.3	383 g/l	8010-99-884-5957
Leighs Paints	EPIGRIP M902 Aluminium	See 4.3	219 g/l	8010-99-421-0972
Leighs Paints	EPIGRIP L524 Aluminium	See 4.3	296 g/l	8010-99-216-0021
Leighs Paints	EPIGRIP L524 White	See 4.3	296 g/l	8010-99-564-2934
Leighs Paints	EPIGRIP M922M Mastic Aluminium	See 4.3	146 g/l	8010-99-495-3873
Leighs Paints	BIOGARD M630V2 Black	See 4.3	0 g/l	8010-99-739-8402
Leighs Paints	BIOGARD M630V2 White	See 4.3	0 g/l	8010-99-313-4440
Leighs Paints	BIOGARD M630V2 Green BS4800 14C39	See 4.3	0 g/l	8010-99-255-5237
Leighs Paints	BIOGARD M630V2 Grey BS381C 676	See 4.3	0 g/l	8010-99-131-6908
Leighs Paints	RESISTEX M535 Black	See 4.3	502 g/l	8010-99453-1479
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 Black	See 4.3	0 g/l	8010-17-115-8450
Maker Coating Systems Ltd	AMERCOAT 300A White	See 4.3	0 g/l	8010-17-108-8249
Maker Coating Systems Ltd	AMERCOAT 300A BS4800 00A01 Ash Grey	See 4.3	0 g/l	8010-99-535-8577
Maker Coating Systems Ltd	AMERCOAT 300A BS4800 14C39 Green	See 4.3	0 g/l	8010-17-113-5690
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	AMERLOCK 400C White	See 4.3	106 g/l	8010-17-108-8248
Maker Coating Systems Ltd	AMERLOCK 400C RAL 6018 Yellow-Green	See 4.3	106 g/l	8010-99-383-2335
Maker Coating Systems Ltd	AMERLOCK 400C Non-Skid Type 1 Black	See 4.3	106 g/l	8010-99-184-8542
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
Trimite	Q55X BS381C 697 Light Admiralty Grey	See 4.3	491 g/l	8010-99-224-9624

INTENTIONALLY BLANK



INTENTIONALLY BLANK