DOSSIER DE QUALIDADE



Empreitada:

4001008 - "Nuevas Plantas de Poliolefinas, Plataformas Logísticas Y Offsites"

DOCUMENTO	NIO.
DOCUMENTO	IN.

DATA:

FOLHA N°:/ DE:

2.2.2 TRATAMENTO ANTICORROSIVO

ITEM	ELEMENTO	DESCRIÇÃO	CÓDIGO	DATA
1	CHAPAS DOS MUROS AVDA. 27	RELATÓRIO DE DECAPAGEM E PINTURA DE CHAPAS	RPA-01	24/04/2024

31/01/2025	In State	hus zdudo	
Data	Qualidade	Director Obra	Repsol
Data	Verificado	Aprovado	Cliente



Relatório de Protecção Anticorrosiva

Relatório nr Report nr

01

montaco	19	O O S RIGHENT SE			Coating Inspection Report				Página Page		
Cliente/Client : CIMONTUBO, S.A.					Obra/Project : 2023407						
Designação/Designati REPSOL	ion: Cl	hapas para est	rutura A	SCH -	Encomenda/Order						
Identificação da área a controlar											
Area description	Decapa	igem e p	oitura d	de chapas 0,5	52x4,10m (14u	n.); 0,48x4,40r	m (12un.); 0,6	0x0,30 (14un.)		
	<u> </u>			Espe	cificação /	Specification	on				
Preparação	de su	perfície / Surfa	ace Prep		-			ntura / Paint S	Specification		
	odo / Me	-	•	Referen	cial Normativo / tandards	Camada	1	dos produtos	Fabricante	Espessura	
Manual		Grau									
Mecânica		Grau				Primário	Cincoat Pri	mer IZS920	CIN	75 μm	
Decapagem	X	Grau	SA 2 1/2	18	SO 8501						
Hidrodecapagem		Grau									
			Cont	rolo d	de Qualidad	de / Quality	Control				
Co	ontrolo	das condiçõe						Equipame	nto Controlo	/ Equipment	
Referência								N.º Série	Marca	Modelo	
Data											
Hora				V	er páginas anex	páginas anexas		N.INT174	ELCOMER	319	
Temperatura Ambiente								VE04004	FLOOMETED	450	
Humidade Relativa								YF24621	ELCOMETER	456	
Temperatura da Superfície											
Ponto de Orvalho											
			Cont	rolo d	de Qualidad	de / Quality	Control				
Preparação de Sup Prepara		e / Surface			C	ontrolo de esp	pessuras / Thi	ckness Contr	ol		
Терин	Esp.	Conforme	Camada)esignação	N.º medições	Média	Desvio Padrão	Máximo	Mínimo	
Controlo do grau de preparação de superfície	Х	ОК	1	Cincoa	at Primer IZS920	6	83,8	4,4	88	78	
Rugosidade	х	ОК									
Outro	os	•									
					Obsevaçõe	s / Notes					
Valida	do MON	NTACO			Valid	dado CLIENTE		A	provado CLIENT	E	
Rub.	Ka	w 25		Rub.				Rub.			
Data	24/04/2	2024		Data				Data			



TRATAMENTOS ANTICORROSIVOS E CONST. CIVIL S.A

OBRA N.º 2023407 DATA:

			ODIN	,		•					
CLIENTE: CIMONTUBO DESIGNAÇÃO: Chapas para estrutura ASCH - REPSOL											
		CHECK - LIST DE C	CONTROLO EM OB	RA							
Campo de Aplicação	Acção	Parametro	Coformidade		Descrição da Acção Correctiva / Correcção	Aprovação Final					
0,52x4,10m x0,30 (14un.)	Verificação das superfícies	Estado limpeza geral Revestimento existente Estado de degradação Elementos a proteger	Conforme Não Conforme Acção Correctiva		Data:// Assinatura:	Data: 2024/04/24 Assinatura:					
apas 0,60	Verificação da Decapagem /Limpeza	Grau	Conforme Não Conforme Acção Correctiva		Data:// Assinatura:	Data: 2024/04/24 Assinatura:					
pitura de c 40m (12un.	Verificação das condições de aplicação do	Existência do esquema Conhecimento das fichas técnicas	Conforme			Data: 2024/04/24					
Decapagem e pitura de cha (14un.); 0,48x4,40m (12un.);	revestimento ou pintura	Estado da superfície / rugosidade do suporte / degradação	Não Conforme Acção Correctiva		Data:// Assinatura:	Assinatura:					
	Verificação do revestimento ou pintura	Controlo da espessura húmida Aspecto visual Tempos de repintura Aderência	Conforme Não Conforme Acção Correctiva		Data:// Assinatura:	Data: 2024/04/24 Assinatura:					

Aprovado MONTACO:	Aprovado CLIENTE:
ASSINATURA:	ASSINATURA:
DATA: 24/04/2024	DATA://

Página 1 de 1 MOD.06.21





Registo de Controlo das Condições Atmosféricas e do suporte

TRATAMENTO	ANTICORROS	SIVO E CONST. CIVIL , S.A.	150	GEMENT ST	REG. N.º	1	DATA : 24/	04/2024
		, -						
CLIENTE:	CIMONT	JBO			OBRA:	2023407	DATA:	
DESIGNAÇÃO:		Chapas para estrutura	ASCH - R	EPSOL	_	<u>.</u>		
		Medic	ñes efectua	adas				

DESIGNAÇÂ	iO:	Chapas pa	ıra estrutur	a ASCH - I	REPSOL	•		
Data	Hora			ções efecti	uadas			Obs.
	11014	T.A	H.R	T.S	P.O	H.R.B		
14/03/2024	11:20	21,9 °C	67,30%	19,5 °C	15,6 °C			
15/03/2024	10:25	20,2 °C	76,70%	19,1 °C	16,0 °C			
19/03/2024	16:30	21,3 °C	65,80%	21,2 °C	14,6 °C			
20/03/2024	17:15	18,0 °C	74,10%	19,7 °C	13,4 °C			
26/03/2024	16:30	16,0 °C	71,80%	16,6 °C	10,9 °C			
					EL-1			0.4/0.4/0.00
Legenda T.A	Temperatu	ra ambiente			Elaborado Aprovado		Dat Dat	
H.R	Humidade	relativa do a	r			os de moni		
T.S		ra da superf	ície					
P.O H R B	Ponto de o	rvaino residual do h	octão				Página	de

Legenda			Elaborado	por:		Data:	24/04/2024	
T.A	Temperatura ambier	Temperatura ambiente			por:		Data:	
H.R	Humidade relativa do	o ar	1	Dispositive	os de moni	torização:		
T.S	Temperatura da sup	erfície]					
P.O	Ponto de orvalho							
H.R.B	Humidade residual d	Humidade residual do betão				Página		_de
			-					



Média

(Espessuras)

83,8



	4	14					- W			
	montac ICORROSIVO E CONST. C	CIVIL S.A.	O O O NO N	REG. N.º	1	DATA:	24/04/2024			
CLIENTE:	CIMONTUBO			OBRA:	2023	407				
DESIGNAÇÃO:	Chapas para estrutur	a ASCH - REPSO	L							
DESIGNAÇÃO /	DESIGNAÇÃO / IDENTIFICAÇÃO DA ÁREA A CONTROLAR Chapas para estrutura ASCH - REPSOL									
			Ca	amadas						
Leitura	Cincoat Primer IZS920									
1	79									
2	88									
3	86									
4	88									
5	78									
6	84									
7										
8										

OBSERVAÇÕES:

Validado	O(MONTACO)	Validado CLIENTE	Validado OUTROS
Rub.	Janes	Rub.	Rub.
Data	24/04/2024	Data	Data



montaco Tratamentos Anticorrosivos e Construção Civil, S.A.

July of 2024 Technical Information



Client: CIMONTUBO, S.A.

Edition:

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Client: CIMONTUBO, S.A.

1 – Objective

Establish the guide lines for coating pipe spools, equipment and structures for corrosion protection by application of several coating systems, at CIMONTUBO facilities ZILS2, and touchups at assembly site in

REPSOL facilities, Sines - Portugal.

2 - Description of object of works

The scope of works is the application of several protective coating systems in pipe spools, equipment and structures according to specification, including surface preparation coating at shop and touch up at site after erection.

Systems

Scheme 1 for carbon steel at shop

Surface blasting to a degree of Sa 2 ½ according to ISO8501-1;

- Application of 1 coat of Ethyl Silicate Zinc primer Hempel's Galvosil E 15BES, with a dry thickness of 70 microns;
- Application of 1 coat of intermediate Epoxy high thickness micaceous iron Hempadur 47300 12430 (MIO) with 110 microns dry thickness;
- Application of two coats of aliphatic polyurethane finish Hempathane HS 55610 with a dry thickness of 40 microns per coat.

Scheme 4 for galvanized steel at shop

- Surface sanding (remove between 5 and 8 microns) to an overall dull grey appearance and degreasing;
- Application of 1 coat of epoxy primer for galvanized steel Hempel's Epoxy Primer HV 15410 with a dry thickness of 30 microns;
- Application of 1 general coat of high build epoxy intermediate with aluminum Hempadur 47300 19871 (AL), 125 microns dry thickness;
- Application of 1 coat of modified acrylic finish Hempel's Polyenamel 55102, with a dry thickness of 40 microns.

Scheme 1 for carbon steel at site

- Surface preparation to a degree of St 2-3 according to ISO8504-3;
- Application of 1 coat of epoxy primer with aluminum Hempadur 47300 19871 (AL), and dry thickness of 100 microns;
- Application of 1 coat of intermediate Epoxy high thickness micaceous iron Hempadur 47300 12430 (MIO) with 110 microns dry thickness;
- Application of two coats of aliphatic polyurethane finish Hempathane HS 55610 with a dry thickness of 40 microns per coat.

Scheme 4 for galvanized steel at site

- Surface preparation to a degree of St 2-3 according to ISO8504-3;
- Application of 1 coat of epoxy primer with aluminum Hempadur 47300 19871 (AL), and dry thickness of 100 microns;
- Application of 1 general coat of high build epoxy intermediate with aluminum Hempadur 47300 19871 (AL), 125 microns dry thickness;
- Application of 1 coat of modified acrylic finish Hempel's Polyenamel 55102, with a dry thickness of 40 microns.

3 - Standards and regulations

Manufacturer guidelines and products technical datasheets; ISO 8501-1;

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ISO 8502-1 a 4; ISO 8503-2 e 5; ISO 8504-2 e 3; DIN EN ISO 12 944 parts 1 to 9; ISO 4624 e ISO 2409 **Coating Specification**

4 - Execution methodologies

Use in the execution of the coating works, experienced and specialized personnel, to ensure the compliance of the required technical quality.

All work will be performed in accordance with the technical specifications, and products to be used datasheets and all instructions given by the manufacturer. The execution of works, will be monitored in accordance with the provisions of the Inspection and Test Plan, records will be performed in proper models.

4.1 - Material reception - Client property

Material will be received, unload and properly storage at CIMONTUBO facility. A suitable size portion of area will be reserve for the project and will be delimited and properly identified. All parts shall be separated from any other projects.

Material reception and placing for coating application is CIMONTUBO responsibility.

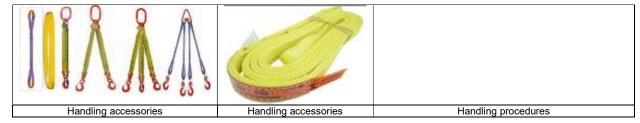
4.2 - Material handling, loads and unloads - Client property

All loads and unloads, including in shop transportation and movements will be performed using the means available.

- Fork lifters
- Telescopic fork lifters
- Trucks.



Material handling will be performed using proper accessories, more fragile parts will be protected as coated parts in contact with metallic lifting equipment and accessories.



Material handling and placing for coating application is CIMONTUBO responsibility.

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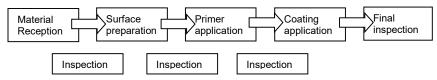
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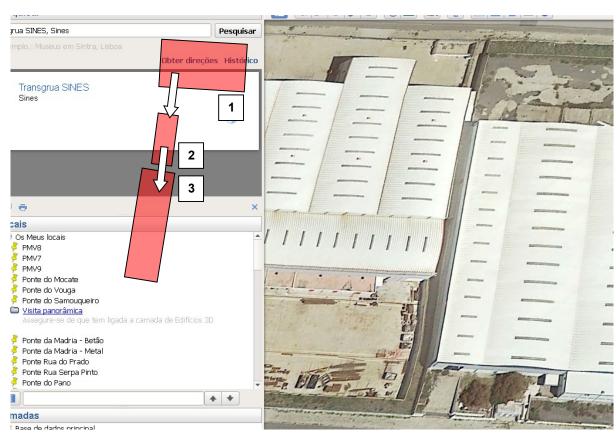
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4.3 - Production and inspection flow chart





Legend		
1 – Material reception and storage		
2 – Blasting operation	Handling time 10-20min.	Environmental condition check
3 – Coating (primer and all layers)	Handling time 20-30min.	Environmental condition check*

Please note that in case of improper environmental condition no works will be performed.

4.4 - Hold points, quality control and immediate actions

		Immediate actions			
Location	ocation Inspection / controls	Op.	For.	Sup /QC	
1	Steel surface		Х	Х	Inform client for steel surfaces reparation (welding or steel defects)

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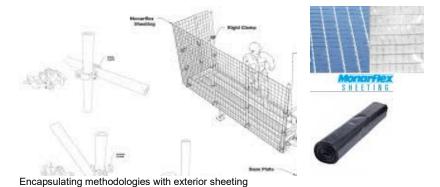
Client: CIMONTUBO, S.A.

	Steel surface cleanness	X	Х	Х	Repeat blasting or any other action necessary
	Roughness		Х	Х	Check abrasive and repeat blasting
2	Temperature and humidity	Х	х	Х	If humidity is high No blasting allowed If humidity is right Proceed with blasting
	Paint material	Х	Х	х	If not right make devolution to supplier. Do not proceed with coating using this batch.
	Temperature and humidity	х	х	х	If humidity is high No blasting allowed If humidity is right Proceed with blasting
3	Coating cure per layer				IOZ primer curing rub test, if ok proceed with next layer application All other layer as manufacturer datasheet.
	Film thickness	X	X	x	Control wet and dry thickness as specification
	Coating	Х	х	х	Check all layer for color, layer uniformity, sags and runs, over spray, or any other visible defects. Remove and correct.

4.5 - Blasting room

Blasting area will be covered and separated from the others areas, a covered structure will be assembled to prevent dust and debris propagation. Casing will be done in scaffolding material (rigid structure), covered with Monarflex or polythene sheeting (air impermeable sheeting).

Structures and sheeting will be according to SSPC Guide 6, class 2A, this system provides high level of emissions control.



4.6 - Surface preparation

Surface preparation shall be carried out by dry blast. Prior to blast cleaning, any oil, grease, dirt shall be removed either by means of a suitable solvent or alkaline cleaning agent, if necessary, in accordance with SSPC-SP1. Excessive layers of rust shall be removed by chipping.

Weld spatter, rough welds and sharp edges shall be ground smooth prior to blasting. If any identified MONTACO will solicitate for CIMONTUBO intervention. (All surface preparation as referred in ISO8501 part 3, is CIMONTUBO responsibility).

Surfaces exposed to a polluted atmosphere shall be washed down with clean fresh water prior to surface preparation.

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After the required surface preparation has been achieved, all dust, debris and abrasive residues shall be removed from the blasted cleaned surface by using clean dry oil-free compressed air, dry brush or vacuum cleaner.

The surface shall then be painted before contamination or flash rusting occurs. Surfaces to be painted shall be completely dry and free from burrs, weld spatter, flux, rust loose scale, dirt, dust, grease, oil, salts and other foreign matter before any paint is applied.

Abrasives

Abrasives intended for blast cleaning carbon steels and low alloy steels are specified in ISO 8504-2. Suitable types are:

- Non-ferrous abrasive (aluminum oxide, copper slag, garnet etc).
- Sand or other materials producing silica dust shall not be used.
- The abrasives shall be free from oil, grease, moisture etc. Re-used abrasive shall be clean and free from contaminants.

Grades of Surface Finish

Surface finish shall be in accordance with ISO 8501-1. The following preparation grades are to be used:

• Sa 21/2 - Very thorough blast cleaning

Surface preparation by hand or power tool cleaning

Manual cleaning using mechanical cleaning tools shall only be used for touch-up and/or repair of new construction painting in the field and only in field.

• Surface finish shall be in accordance with ISO 8504-3 grade St 3.

4.7 - Coating procedures

Storage

The painting materials shall be stored strictly in accordance with the instructions of the paint manufacturer.

Mixing

Two or multiple pack paint materials shall be mixed in accordance and under the conditions as specified by the paint manufacturer. Containers with hardener shall be completely emptied into the container of the base material. No more material shall be prepared at the same time than can be used within the time designated by the paint manufacturer as "pot life".

Mixing shall be done in a well-ventilated, clean and dust-free area. Paints shall be mixed by rotating power mixers or rolling rigs, until a uniform consistency is achieved.

Thinners and solvents

Only additives, thinners, solvents, etc., as recommended by the paint manufacturer, shall be used. A possible extension of the "pot life" by the additions of thinners is prohibited.

Paint application

The paint shall be applied in accordance with the paint manufacturer's product data sheet, which shall include the mix ratio, method of application and details regarding the use of thinners and overcoating times. The dry film thickness shall be as per the paint system requirements. Areas with inadequate coating thickness shall be repaired.

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During each coating application, stripe coating shall be applied to areas where the shape and / or plane of application will result in thinly applied coatings e.g. at edges, welds, corners to ensure that the minimum DFT is achieved.

If condensation, rain, dust or other foreign materials contaminate the surface of a paint coating which is not dry to touch, the paint shall be removed, the surface re-cleaned and fresh paint applied in accordance with this specification.

Coating of welds shall be applied after completion of all required pressure testing.

A gap of 50mm shall be left free of primer at plate edges, pipe ends, etc., which are to be welded.

Workmanship

Paint application shall be of a first-class workmanship, with a uniform film thickness and appearance and shall be free of brush marks, sags, runs, foreign matter, etc.

Care shall be taken to protect adjacent equipment, piping, structure, etc. from spillage and spatter during field painting by use of adequate temporary covers.

Weather conditions

Painting shall not be performed when the temperature of the surface is less than 3°C above the dew point of the surrounding air or when the relative humidity of the air is greater than 85%.

If solvent based Inorganic zinc silicates are used these shall only be applied when the relative humidity is above 50%.

Guidance on the estimation of the probability of condensation can be found in ISO 8502-4. The measurement of these conditions will be executed by MONTACO.

For application and curing of epoxy below 10°C, surface or ambient temperature, a winter formulation shall be used or forced curing shall be applied.

When steel is painted in hot weather, precautions shall be taken to ensure that the specified DFT of paint is obtained.

In addition, paints shall not be applied under the following conditions:

- When the surface temperature is greater than 40°C, unless the paint is suited for application at this temperature.
- When the air temperature is less than 5°C.
- When there is the likelihood of an unfavorable change in weather conditions within two hours after painting.
- When there is a deposition of moisture in the form of rain, condensation, frost, etc.

Spray application

Airless or pneumatic spray applications are the preferred method of application. Spray painting in the field may cause interference with other work so approval must first be obtained from the Principal.

If spray painting is to be carried out, the following shall be taken into account: The correct spray tips, air pressures etc. as recommended by the equipment supplier, shall be used.

Each coat shall be applied uniformly and completely over the entire surface. All runs and sags shall be brushed out immediately or the paint removed and re-sprayed. Very complex structures should be painted by brush instead of spray gun to avoid overspray, dry spray and unacceptable paint losses.

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Brush application

Brush application may be used in the following circumstances:

- When areas cannot be properly coated by spraying for any reason, such as material or environmental considerations.
- For the initial and subsequent coats of paints to corners, edges, crevices, holes, welds or irregular surfaces prior to spray application.
- For touch-up or repairs in shop and field, to localized damaged paint or areas of incorrectly applied paint.
- Where the paint manufacturer considers the coating material suitable for brush application.

Brushes shall be in a style and quality that will permit proper application of the paint.

Brush applications should be done in two passes that are perpendicular to each other so that a smooth coat, as near uniform in thickness as possible, is obtained. There should be no deep or detrimental brush marks. Paint shall be worked into all crevices and corners. Runs and sags shall be brushed out.

Roller application

Roller application shall only be used on relatively large surface areas and only if spraying is not an option. Roller application shall only be used for subsequent coats after the priming coat has been applied by brush. Roller application shall be in accordance with the paint manufacturer's instructions.

Repair of damaged primers and coatings

Surfaces which are damaged or have DFT out of tolerance shall be ground back to bare metal in accordance with St 3 and re-coated, within 4 hours.

Areas requiring to be re-primed shall be re-blasted or needle-gun cleaned for areas originally abrasive blasted.

Re-priming shall be done with the same primer as originally applied. Where this is not feasible, the primer used shall be compatible and be suitable for the operating temperature.

Where shop coating has been damaged in handling, all damaged and blistered coating shall be removed by hand or power tool cleaning. Edges of the breaks shall be feathered and the specified number of prime and finished coats applied. Repair of coating is subject to inspection by principal.

5 - Coating System

System 1 Shop	Hempel's Galvosil E 15BES
	Hempadur 47300 – 12430 (MIO)
	Hempathane HS 55610 – cor a definir
System 4 Shop	Hempel's Epoxy Primer HV 15410
	Hempadur 47300 – 19871 (AL)
	Hempel's Polyenamel 55102 – cor a definir
System 1 Shop	Hempadur 47300 – 19871 (AL)
	Hempadur 47300 – 12430 (MIO)
	Hempathane HS 55610 – cor a definir
System 4 Shop	Hempadur 47300 – 19871 (AL)
	Hempadur 47300 – 19871 (AL)
	Hempel's Polyenamel 55102 – cor a definir

Paints datasheets

As attachment.

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6 - Quality control and inspection

6.1 - General considerations and inspections board

Previously to the beginning of the coating works, environmental condition will be controlled to ensure their proper execution, observing the requirements of the specification, product datasheets and MONTACO internal procedures.

All verifications and records will be performed in accordance with the requirements of specification and inspection plan.

Inspection of	Method	Frequency	Acceptance criteria	Consequence
Temperature and humidity	Ambient temperature. Steel surface. Temperature relative air humidity. Dew point.	Before start of each work shift. 2 times per work shift.	According to specification RH<85% RH>50% (IOZ) DPT>3°C	No blast cleaning or coating application
Steel surface	Visual	100% of all surfaces	No visible defects	Repair of defect
Roughness	ISO 8503-5 ASTM D4417 - Method C	Spot checks (one test per 100m2)	According to specification Greater than 50microns	New blast cleaning
Cleanness	Visual ISO8501-1	100% of all surfaces	According to specification SA2 ½ and ST3.	New blast cleaning
Paint and blasting material	Examine paint and hardener designation and batch N°, blast abrasive.	Before start of each work shift	According to specification	Corrective action
Curing IOZ	Rub test MEK ASTM D4752, only for IOZ coatings. Coin rub test.	Spot checks, previous to 2 nd layer application	According to specification. Rating 4 or higher.	Corrective action
Film thickness	Electromagnetic SSPC PA2 ISO2808	Spot checks	According to specification and table below – Sampling Plan. Level 4 as SSPC PA2.	Corrective action
Paint coating	Visual	100% of all surfaces for each coat	No defects	Repair of defect

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Table 1 — 5

Minimum nu measurer

5

10

15

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Criar um PDF

Combinar arquivos

Organizar páginas

Adicionar comentários

Solicitar assinatura eletrôr

A Dig. e conv. em texto

Compactar um PDF

Coultar informação em um

Proteger um PDF

19840)

	19840)	
	Area/length of inspection area	
nica	m² or m	
	up to 1	
	above 1 to 3	
n PDF	above 3 to 10	
	above 10 to 30	

6.2 - Quality control equipment's

Roughness	Wet thickness comb	Termo-hygrometer	Dry thichness gauge
ELCOMETER 122 E 124	ELCOMETER 112 AL	ELCOMETER 319	ELCOMETER 456
The state of the s	COCOTORS COCOTORS COCOTORS VET PLAN COMM THE NAME OF THE NAME		O

All equipment's are verified / calibrated according to internal verification/calibration plan – Verification / calibrations certificates attached.

6.3 - Inspection procedure and inspection team

All quality control will be performed at location by operators and supervisor, dully supported by qualified technicians for quality control with programed visits.

All operations quality control inspection in process will be performed by operators and supervisor / foreman.

Quality control as foreseen in the ITP, will be performed by supervisor / foreman at site, dully qualified to perform all tests required. Supervisor / foreman has internal qualification as Quality inspector in conformity with Coating specification requirements.

All internal quality control technicians and supervisors / foremen are internally qualified to perform quality control, MONTACO internal qualification is provided by experienced Quality Control Technician.

Final reports will be verified and signed by experienced Quality Control Technician, who will also perform one site audit / visit per month.

6.4 - Inspection hold points and records

Inspection will be performed as specified, inspection hold points and criteria as explained in "Coating Specification".

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7 - Scheduling and working plan considerations

Upon receiving formal order, MONTACO will initiate all preparation works and make provisions with scaffoldings structures material and Monarflex or polyethylene sheeting. Sufficient ventilation and dust removal will be made available for this project.

MONTACO will also ensure proper preparation of the workers and technicians involved in works. MONTACO will affect to works several workers, all qualified internally.

8 - Colour - RAL

System 1	According to TABLA II. CROMATICIDAD EN LÍNEAS e TABLA IV. CROMATICIDAD EN ELEMENTOS Y EQUIPOS
	According to TABLA II. CROMATICIDAD EN LÍNEAS e TABLA IV. CROMATICIDAD EN ELEMENTOS Y EQUIPOS

9 - Safety

9.1 - Basic rules of site organisation

- It is forbidden to leave rags or waste scattered or lying around, whether or not soaked in chemical products.
- Tools, bolts and other materials or equipment that will be used in any operation or repair must be properly stored.
- Likewise, materials in storage must be properly stored.
- Passageways must be kept clear at all times and any obstructions that are absolutely and temporarily necessary on site must be signalled.
- Electrical cables, ropes or hoses must not be left in stairwells, floors or passageways unless absolutely necessary for ongoing operations.
- All fire-fighting equipment and personal protective equipment must be kept in their places and access to them must be unobstructed at all times.

9.2 - Equipment and tools

All equipment's, tools and accessories must be in good operating or use conditions, must have in placed all manufacturer protections and safety devices.

9.3 - Product safety datasheets

All safety datasheet of chemical products in use must be present at site and with easy access to all personnel.

9.4 - Protective equipment plan

Collective protection equipment

The implementation of collective protection consists of an action established at the level of the source of the risk, which thus establishes a protection of considerable effectiveness with regard to each and every person who is exposed to it.

Location	Measure
Blasting Cabin	Installation of ventilation with dust removal and filtration
Blasting Cabin	Installation of sufficient lighting
Blasting and coating area	Installation of Fire extinguishers

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Personal protective equipment

Personal Protective Equipment is all the equipment intended for the worker's personal use to protect against risks that threaten their safety while carrying out their tasks.

MANDATORY PPE				
PPE	BODY PART	RISK	OBSERVATIONS	
Helmet	Head	Falling objects Shocks	Not mandatory - When necessary	
Blasting helmet	Respiratory system	Dust Projections	When blasting	
Breathing masks	Respiratory system	COV Dust Projections	When airless sprying	
Protection boots	Feet	Fallen objects Punctures	At all times	
Glasses	Eyes	Projections	At all times	
Coverall / working cloths	All body	Contact with substances	At all times	
Gloves	Hands	Dermatoses, cuts and bruises	At all times	
Ear plugs	Ears	Ear damage and loss of earing	When blasting	

10 - Attachments

Paints datasheets Verification / calibration Certificates

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