

**SOUTH AFRICA ASTRONOMICAL
OBSERVATORY, OBSERVATORY
PLASCON RECOMMENDED SPECIFICATION**

KP007810

**WESTERN PROVINCE
11 FEBRUARY 2020**

11 February 2020

South Africa Astronomical Observatory, Observatory
Observatory road
Western Province

Attention :Matthew Fourie
Telephone Number :0768120296
Cellular Number :0768120296
E-mail Address :Matthew@saltarchitects.co.za

Dear Matthew Fourie

RE: **SOUTH AFRICA ASTRONOMICAL OBSERVATORY, OBSERVATORY**

With reference to our visit and assessment of the abovementioned project, we would like to offer the following recommendations for your consideration.

Note: Waterproofing compound is specified on external walls. Specifically for the tops of horizontal exposed walls, and it is also specified to be applied vertically over filled cracks that might recur.

GENERAL

- There is a possibility that clean, bright colours might not cover in two coats. Another one or in extreme cases two coats might be required to achieve opacity. Alternatively, a similar colour (in a medium or dark base) can be used as the base colour and then overcoated with the recommended topcoat colour.
- To achieve full obliteration when using colours falling within the bright, clean colour spectrum, multi-coats will be necessary to achieve full obliteration, after the application of the plaster primer and the appropriate base coat where necessary. This should be taken into consideration when specifying and pricing within this parameter.
- **PLEASE NOTE:** When **YELLOW** top coats are selected for **NEW and REDEC WORK Application**, it is imperative to use Plascon Professional Plaster Primer - PP950 (Alkali Burn Resistance Primer) in place of other plaster primers as pH levels may be exceptionally high on new or hairline cracked plaster.
- Kansai Plascon reserves the right to amend the specification once site establishment has taken place should it be deemed necessary e.g. plaster severely cracked but paint has not. It is not always possible to accurately determine the condition of the substrate underneath the existing coating
- Uneven, inconsistent surface profiles will result in varying reflectance levels which will present as a patchy finish, even when matt coatings are used. We are using high build coatings to mask this effect
- Only the areas mentioned in the scope of works must be coated
- All the products mentioned in these specifications must be applied strictly in accordance with the relevant Product Data Sheets
- A site inspection must be carried out by a Plascon consultant prior to painting of the substrates to ensure that the scope of work is correct
- Projects within a 5km radius of the ocean must be overcoated with a full coat of the Kansai Plascon specified primer, where the coating system has substantially faded and chalked.
- Please note that the attached specifications are valid for a **six month** period from date of issue.
- At the time of inspection there was no chalking evident, however should chalking be evident when painting commences a full coat of the specified primer is required.
- Should 50% or more of the surface area require patch priming, it is recommended for a full coat of the specified primer be applied.

External previously painted steelwork



The strength of the steel bars need to be inspected, as the steel may be rusted through and need replacing. When painted all the existing paint and rust should be removed. The specification can then be followed, bearing in mind that any unevenness in the surface of the steel will be visible once painted.

External previously painted timber



Existing timber frames in sound condition, should be stripped of existing paint either by the prescribed dry method, or paint stripper method. Once cleaned, they can receive a full coat of wood primer, similar to the new timber specification.

PLEASE NOTE:

- a. The client/contractor must notify the Plascon Projects Department that the project has been awarded and when the project will start. Please fill in and fax the attached Project Action Sheet back to the Commercial Projects Division. Phone number: (011) 608 0790 and fax number: 086 688 0378.
- b. In order to facilitate the Plascon Guarantee, Plascon Preferred Applicators must be used on this project.

Please note that the attached specifications are valid for an six-month period from date of issue. Should the project not commence during this period it may be necessary to re-assess the project as further coating deterioration may have occurred and product upgrades may be necessary.

It is recommended that imported light fast colourants/pigments be used for the bright, clean colours. These colours will change uniformly and a difference in the finishing colour will be noted after +- 1 year. Pantone colours should not be used but rather choose colours from the RAL or BS colour standards.

Colour change is the perceived colour difference in magnitude between coated substrate and standard colour panel assessed by contrast value (excludes hue and depth) on Grey Scale ISO/SANS 105-A02:1993 (E). Colour change allowable, using the Grey Scale Standard ISO/SANS 105-A02:1993 (E) is 4-5 up to three years and 3-4 up to five years. Beyond 5 years is not considered.

Yours sincerely

LLYNITH DAVIDS
CONSULTANT

PLEASE NOTE

**THE PROJECT ACTION SHEET TOGETHER WITH A COPY OF YOUR QUOTE (ITEMISING THE PRODUCTS AND SURFACE PREPARATION THAT WAS TENDERED ON - PLEASE DELETE YOUR PRICING) INCLUDED IN THIS DOCUMENT MUST BE RETURNED TO PLASCON COMMERCIAL SPECIFICATIONS DEPARTMENT
FAX NO: 086 688 0378**

**PRIOR TO THE COMMENCEMENT OF THIS PROJECT
TO FACILITATE PLASCON'S FORMALITIES AND TIMEOUS SITE ATTENDANCE**

IF THIS IS NOT ADHERED TO NO PROJECT GUARANTEE WILL BE ISSUED

SPECIFICATIONS FOR

SOUTH AFRICA ASTRONOMICAL OBSERVATORY, OBSERVATORY OBSERVATORY ROAD WESTERN PROVINCE

CONTENTS

- Index/Scope of Work
- Contractors Quotation Requirements
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DISCLAIMER

The recommendations contained herein are given in good faith and are meant to guide the specifier or the user. They are based on results gained from our tests and experiences and are believed to be reliable. No guarantee is implied by the recommendations contained herein since conditions of use, method of application and cleanliness of the substrate prior to painting are beyond our control. No part of this work may in any form or by any means be reproduced without the prior written permission NB: The specification should be read in conjunction with the product data sheet. Technology may change with time necessitating changes to this Technical Data Sheet (TDS). It is the responsibility of the user to ensure that the latest TDS is being used. Copyright Kansai Plascon (Pty) Ltd 2020. All rights reserved. No part of this work may in any form or by any means be reproduced without prior written permission of the copyright owner. PLASCON is the registered trade mark of Kansai Plascon (Pty) Ltd.

INDEX/SCOPE OF WORK

SPEC NO	SUBSTRATE	SPECIFICATION TYPE	PRODUCT	FINISH	LIFE EXPECTANCY	LOCATIONS	BUILDING ELEMENTS
1	Cement Plaster	Previously Decorated	Micatex (BBO/TMX)/Professional Damp Plaster Paint (PSB600)/Professional Waterproofing Compound (PWC520)	Textured/Water Based	Severe: 8 years	External Walls-cement plaster	
2	Galvanised Steel (Within 5km Of The Coast)	Previously Decorated	Velvagio Water Based (VLW/TVW)/Plascotuff 3000 (PEX 3000)	Smooth/Water Based	C5: 3 years	External Walls- Galvanised steel sheeting	Steel walls
3	Mild Steel	Previously Decorated	Plascothane 9000 Polyurethane (PRU/PRH 9)/Plascoguard 75 Zinc Phosphate Epoxy Primer (PEX75)	Smooth/Solvent Based	C5: 8 years	External previously painted steelwork	Burglar bars
4	Wood	Previously Decorated	Super Universal Enamel (NY 1/G)/Wood Primer (UC2)	Smooth/Solvent Based	Severe: 2 years	External previously painted timber	Door frames Doors Garage doors Window frames
5	Cement Plaster	Previously Decorated	Super Acrylic Polvin (EPL/TAP)/Professional Damp Plaster Paint (PSB600)	Smooth/Water Based	Severe: 6 years	Internal walls	Cement plaster
6	Wrought Iron	Previously Decorated	Velvagio Water Based (VLW/TVW)/Coastcote Etch Primer (SNK)	Smooth/Water Based	Severe: 6 years	External previously painted Cast Iron	Down pipes
7	Wood	New Work	Super Universal Enamel (NY 1/G/TSE)/Wood Primer (UC2)	Smooth/Solvent Based	Severe: 2 years	External and Internal new timber	Window frames

AREAS TO BE EXCLUDED

All substrates not mentioned in this document

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Contractor quotation requirements for Guarantee Projects:

- Contractors to provide proof of registration with the Unemployment Insurance Fund (UIF) and Compensation for Occupational Injuries and Diseases Act (COID).
- Contractors must advise the client in writing, as to whether they will be using their own staff or sub-contractors on the project.
- The successful contractor will be required to supply a program of works prior to commencement.
- Allowance must be made for removal and replacement of screws on signage (excluding neon signs), where necessary.
- Please supply a total break down of the quotation price for the redecoration work as per Plascon's recommended specification numbers & substrate types (as per this document) for guarantee purposes.
- Quotations are to be valid for a three month period.

Project Action Sheet:

- To assist with prompt handover of projects we have partially prepared a "Project Action Sheet" for this project.
- Once a decision has been made to award the project to a painting contractor, we would appreciate you completing the items highlighted in red in sections 1-3 and attaching a copy of the successful contractor's quotation. This information can then be faxed to our offices:

To : Plascon South Africa (Pty) Ltd
Attention : Trade Projects Department
Facsimile Number: 086 688 0378
Email : trade.admin@kansaiplascon.co.za

- We will complete the outstanding information internally and ensure that the relevant Plascon people are advised to monitor the project and prepare the guarantee documentation.

Your assistance with the above is appreciated.

PROJECT ACTION SHEET

DATE: 11 February 2020

NB: PLEASE ATTACH COPY OF ACCEPTED QUOTATION!!!

SECTION 1			
Project Name	South Africa Astronomical Observatory, Observatory		
Project Address	Observatory road, Western Province		
Architects	Salt Architects	Contact Person & Contact Number	Matthew
Client	Salt architects	Contact Person & Contact Number	Matthew Fourie 0768120296
Corporate Client		Contact Person & Contact Number	
Developer		Contact Person & Contact Number	
Quantity Surveyor		Contact Person & Contact Number	
Clients Consultant		Contact Person & Contact Number	
SECTION 2			
Applicator		Contact Person & Contact Number	
Contractor's Consultant		Contact Number	
Estimated Start Date	2020-04-01	Estimated Completion Date	2020-12-15
Estimated Contract Value		Estimated Paint Value	
SECTION 3			
<u>SURFACE AREAS TO BE PAINTED AND INSPECTED:</u>			
Does the scope of work remain the same as per specification document?: NO/YES			
(If the answer is no, please supply changes or areas that are to be excluded or included)			
N/A			
SECTION 4 - SUBSTRATES GUARANTEED			
COATING SYSTEMS - As per Plascon Specification Document Dated		11 February 2020	
The following specifications will apply to the guarantee:			
SPEC NO:	SUBSTRATE	BUILDING ELEMENT	GUARANTEE PERIOD
SECTION 4 - SUBSTRATES GUARANTEED			
Quality Assurance (Contract value above R150 000,00)			
Product Guarantee			
Instructions/Paperwork:			
Contractors Rep			
Site Inspection Required			Yes
Reference Area Required			
Colour Finishing Schedule Required			

SPECIFICATION SHEET NO. 1**APPLICABLE LOCATIONS:****EXTERNAL WALLS-CEMENT PLASTER****REPAINT:** Exterior**SUBSTRATE:** Cement Plaster**PAINT FINISH :** **Micatex**
(Fine textured - Waterbased, durable, weather proofing Unique Weather Block formulation improves water resistance Mica and Marble fills hairline cracks)**PRODUCT CODE:**
BBO/TMX**COLOUR :** White plus Plascon colour system and other fan decks**ENVIRONMENT:** The Maintenance Cycle is a Guide but can vary due to micro-climate changes identified on the site which will effect the longevity of the coating system
As per SANS 10305-1:2012 Edition 1.2, Section 4.1.3: Severe**Maintenance Cycle:** 8 years

Plascon Coating System	Application Method	Spreading Rate (m ²)	WFT/DFT μm (min & max)	Reducer/Cleaner	No. of Coats	Overcoating time, h @23°C	Technical Data Sheet No	TVOC g/litre
Full Primer: Professional Damp Plaster Paint (PSB 600)	brush, roller or airless spray	@ 30 μm Theo: 8.30m ² /litre Prac: 4.60m ² /litre	WFT: 100/140 microns DFT: 25/35 microns	Mineral Turpentine	1	16 hours		495
ONLY EXTERIOR: Window sills, ledges, parapets, plaster bands, protruding plaster detail, etc. Professional Waterproofing Compound (PWC520)	brush or roller	@ 250 μm Theo: 2.00m ² /litre Prac: 1.50m ² /litre	WFT: 400-600 per coat DFT: 200-300 per coat	Water	3	4 hours		10
Topcoat: Micatex (BBO/TMX)	brush or roller	@ 60 μm Theo: 5.70m ² /litre Prac: 3.70m ² /litre	WFT: 147/206 microns DFT: 50/70 microns	Water	2	2 hours	6266	0 white & std colours < 16 pastel, deep, transparent

* One bottle (100ml) of Plascon Universal Fungicide can be added to each 5 litre of final coat used in damp, wet areas. For severe conditions, two bottles (2 x 100ml) can be added to each 5 litre of final coat used.

SURFACE PREPARATION:

- After a full site assessment has been conducted, select the appropriate surface preparation required from Surface Preparation clauses for remedial procedure.

APPLICATION: Full Primer

- Apply one coat of Professional Damp Plaster Paint (PSB 600) to achieve complete obliteration. Allow 16 hours to dry. (water based topcoat)

Intermediate Coats for Selected Substrates: 3 Coats only exterior Window sills, ledges, parapets, plaster bands, protruding plaster detail, etc.

- Apply three full coats of Plascon Professional Waterproofing Compound (PWC 520) at a spreading rate of approximately 1.5m²/litre per coat. Allow 4 hours drying between coats. Stipples should be smoothed out while still wet using a water-wet brush.

Finishing Coats

- Apply two coats of Plascon Micatex (BBO/TMX) to achieve complete obliteration, allowing 2 hours drying between coats.

* One bottle (100ml) of Plascon Universal Fungicide can be added to each 5 litre of final coat used in damp, wet areas. For severe conditions, two bottles (2 x 100ml) can be added to each 5 litre of final coat used.

Please Note:

Always maintain a wet edge and avoid downing tools during the application process to prevent lap marks and variances in colour or texture. Work from corner to corner, or from a natural cut off point to another. Do not attempt touch ups, but redo complete panels.

SPECIFICATION SHEET NO. 2**APPLICABLE LOCATIONS:**

EXTERNAL WALLS-GALVANISED STEEL SHEETING :: STEEL WALLS

REPAINT: Exterior**SUBSTRATE:** Galvanised Steel (within 5km of the coast)**PAINT FINISH :** **Velvagio Water Based**
(Premium Quality Satin Finish Non Drip Waterbased Enamel)PRODUCT CODE: **VLW****COLOUR :** White plus Plascon colour system and other fan decks**ENVIRONMENT:** The Maintenance Cycle is a Guide but can vary due to micro-climate changes identified on the site which will effect the longevity of the coating system
As per ISO 12944:1998 C5 - coastal/marine**Maintenance Cycle:** 3 years

Plascon Coating System	Application Method	Spreading Rate (m ²)	WFT/DFT μm (min & max)	Reducer/Cleaner	No. of Coats	Overcoating time, h @23°C	Technical Data Sheet No	TVOC g/litre
Spot Primer: Plascotuff 3000 (PEX3000 Grey/ PEH 3 Hardener) Mixing Ratio: 4:1 by volume	brush, roller or airless spray	@ 153 μm Theo: 5.30m ² /litre Prac: 5.30m ² /litre	WFT: 125/250 microns DFT: 100/200 microns	EPT2	1	16 hours		150
Undercoat: Plascon Universal Undercoat (UC 1)	brush, roller or airless spray	@ 30 μm Theo: 14.30m ² /litre Prac: 7.90m ² /litre	WFT: 58-93 DFT: 25-40	Mineral Turps (AZH1)	1	16 hours		300
Topcoat: Velvagio Water Based (VLW/TVW)	brush, roller or airless spray	@ 30 μm Theo: 9.70m ² /litre Prac: 5.50m ² /litre	WFT: 88/118 microns DFT: 30/40 microns	Water	2	4 hours	6934	46-50 white, pastel tinted < 53-60 deep & transparent bases tinted

* One bottle (100ml) of Plascon Universal Fungicide can be added to each 5 litre of final coat used in damp, wet areas. For severe conditions, two bottles (2 x 100ml) can be added to each 5 litre of final coat used.

SURFACE PREPARATION:

- After a full site assessment has been conducted, select the appropriate surface preparation required from Surface Preparation clauses for remedial procedure.

APPLICATION: Spot Primer:

- Mix base and hardener thoroughly in a 4:1 ratio by volume before use.
- Spot prime bare and repaired areas with Plascotuff 3000 (PEX3000 Grey/ PEH 3 Hardener). Premix both components of the Plascon Plascotuff 3000 (PEX3000 Grey/ PEH 3 Hardener) using a power mixer for 3 minutes and then apply (preferably) by airless spray to a minimum DFT of 100-200µm or 125-250µm @ a theoretical spread rate of 5.30m²/litre. Allow 16 hours to dry.

Undercoat

- Apply one coat of Plascon Universal Undercoat (UC 1) to achieve a continuous film. Allow 16 hours to dry.

Finishing Coats

- Apply two full coats of Plascon Velvagio Water Based (VLWTVW) to achieve complete obliteration, allowing 4 hours drying between coats.

NB: if white is used, three coats might be necessary to achieve obliteration.

* One bottle (100ml) of Plascon Universal Fungicide can be added to each 5 litre of final coat used in damp, wet areas. For severe conditions, two bottles (2 x 100ml) can be added to each 5 litre of final coat used.

Please Note:

Always maintain a wet edge and avoid downing tools during the application process to prevent lap marks and variances in colour or texture. Work from corner to corner, or from a natural cut off point to another. Do not attempt touch ups, but redo complete panels.

SPECIFICATION SHEET NO. 3**APPLICABLE LOCATIONS:**

EXTERNAL PREVIOUSLY PAINTED STEELWORK :: BURGLAR BARS

REPAINT: Exterior**SUBSTRATE:** Mild Steel**PAINT FINISH :** **Plascothane 9000 Polyurethane**
(Two component re-coatable polyurethane acrylic finish)PRODUCT CODE: **PRU****COLOUR :** RAL and BS Colour ranges**ENVIRONMENT:** The Maintenance Cycle is a Guide but can vary due to micro-climate changes identified on the site which will effect the longevity of the coating system
As per ISO 12944:1998 C5 - coastal/marine**Maintenance Cycle:** 8 years

Plascon Coating System	Application Method	Spreading Rate (m ²)	WFT/ DFT μm (min & max)	Reducer/Cleaner	No. of Coats	Overcoating time, h @23°C	Technical Data Sheet No	TVOC g/litre
Full Primer: Plascoguard 75 Zinc Phosphate Epoxy Primer (PEX75/PEH75) Mixing Ratio: 4:1 by volume	brush or airless spray	@ 75 μm Theo: 8.00m ² /litre Prac: 5.40m ² /litre	WFT: 83/208 microns DFT: 50/125 microns	EPT2	1	4 hours		411
Topcoat: Plascothane 9000 Polyurethane (PRU/PRH 9) Mixing Ratio: 6:1 by volume	brush, roller or airless spray	@ 60 μm Theo: 8.80m ² /litre Prac: 5.80m ² /litre	WFT: 75/141 microns DFT: 40/75 microns	PT2	2	10 hours	7399	470

SURFACE PREPARATION:

- After a full site assessment has been conducted, select the appropriate surface preparation required from Surface Preparation clauses for remedial procedure.

APPLICATION: Full Primer:

- Mix base and hardener thoroughly in a 4:1 ratio by volume before use.
- Apply one coat of Plascoguard 75 Zinc Phosphate Epoxy Primer (PEX75/PEH75). Allow 4 hours to dry.

Finish Coats

- Mix base and hardener thoroughly in a 6:1 ratio by volume before use.
- Apply two full coats of Plascon Plascothane 9000 Polyurethane (PRU/PRH 9) to achieve complete obliteration, allowing 10 hours drying between coats.

Please Note:

Always maintain a wet edge and avoid downing tools during the application process to prevent lap marks and variances in colour or texture. Work from corner to corner, or from a natural cut off point to another. Do not attempt touch ups, but redo complete panels.

SPECIFICATION SHEET NO. 4**APPLICABLE LOCATIONS:**

EXTERNAL PREVIOUSLY PAINTED TIMBER :: DOOR FRAMES, DOORS , GARAGE DOORS, WINDOWFRAMES

REPAINT: Exterior**SUBSTRATE:** Wood**PAINT FINISH :** **Super Universal Enamel**
(Smooth Finish - Solvent Based, superior high gloss enamel) **PRODUCT CODE: NY 1****COLOUR :** White plus Plascon colour system and other fan decks**ENVIRONMENT:** The Maintenance Cycle is a Guide but can vary due to micro-climate changes identified on the site which will effect the longevity of the coating system
As per SANS 10305-1:2012 Edition 1.2, Section 4.1.3: Severe**Maintenance Cycle:** 2 years

Plascon Coating System	Application Method	Spreading Rate (m ²)	WFT/ DFT μ m (min & max)	Reducer/Cleaner	No. of Coats	Overcoating time, h @23°C	Technical Data Sheet No	TVOC g/litre
Full Primer Coat: Wood Primer (UC2)	brush, roller or airless spray	@ 30 μ m Theo: 15.00m ² /litre Prac: 8.30m ² /litre	WFT: 56/78 microns DFT: 25/35 microns	Mineral Turpentine	1	16 hours		422
Undercoat: Plascon Universal Undercoat (UC1)	brush, roller or airless spray	@ 30 μ m Theo: 14.30m ² /litre Prac: 7.90m ² /litre	WFT: 58-93 DFT: 25-40	Mineral Turps (AZH1)	1	16 hours		300
Topcoat: Super Universal Enamel (NY 1/G)	brush, roller or airless spray	@ 30 μ m Theo: 16.30m ² /litre Prac: 9.00m ² /litre	WFT: 51/71 microns DFT: 25/35 microns	Mineral Turpentine	2	16 hours	8146	381 white, < 415 tint based

* One bottle (100ml) of Plascon Universal Fungicide can be added to each 5 litre of final coat used in damp, wet areas. For severe conditions, two bottles (2 x 100ml) can be added to each 5 litre of final coat used.

SURFACE PREPARATION:

- After a full site assessment has been conducted, select the appropriate surface preparation required from Surface Preparation clauses for remedial procedure.

APPLICATION: Full Primer Coat

- Apply one coat of Plascon Wood Primer (UC 2) to achieve a continuous film. Allow 16 hours to dry.

Undercoat

- Apply one coat of Plascon Universal Undercoat (UC 1) to achieve a continuous film. Allow 16 hours to dry.

Finishing Coats

- Apply two full coats of Plascon Super Universal Enamel (NY 1/G/TSE) to achieve complete obliteration, allowing 16 hours drying between coats.
NB: if white is used, three coats might be necessary to achieve obliteration.

* One bottle (100ml) of Plascon Universal Fungicide can be added to each 5 litre of final coat used in damp, wet areas. For severe conditions, two bottles (2 x 100ml) can be added to each 5 litre of final coat used.

Please Note:

Always maintain a wet edge and avoid downing tools during the application process to prevent lap marks and variances in colour or texture. Work from corner to corner, or from a natural cut off point to another. Do not attempt touch ups, but redo complete panels.

SPECIFICATION SHEET NO. 5**APPLICABLE LOCATIONS:**

INTERNAL WALLS :: CEMENT PLASTER

REPAINT: Interior**SUBSTRATE:** Cement Plaster**PAINT FINISH :** **Super Acrylic Polvin** (Smooth Finish - Waterbased, superior matt acrylic, durable) PRODUCT CODE: **EPL/TAP****COLOUR :** White plus Plascon colour system and other fan decks**ENVIRONMENT:** The Maintenance Cycle is a Guide but can vary due to micro-climate changes identified on the site which will effect the longevity of the coating system
As per SANS 10305-1:2012 Edition 1.2, Section 4.1.3: Severe**Maintenance Cycle:** 6 years

Plascon Coating System	Application Method	Spreading Rate (m ²)	WFT/DFT µm (min & max)	Reducer/Cleaner	No. of Coats	Overcoating time, h @23°C	Technical Data Sheet No	TVOC g/litre
Full Primer: Professional Damp Plaster Paint (PSB 600)	brush, roller or airless spray	@ 30 µm Theo: 8.30m ² /litre Prac: 4.60m ² /litre	WFT: 100/140 microns DFT: 25/35 microns	Mineral Turpentine	1	16 hours		495
Topcoat: Super Acrylic Polvin (EPL/TAP)	brush, roller or airless spray	@ 30 µm Theo: 11.30m ² /litre Prac: 6.30m ² /litre	WFT: 74/103 microns DFT: 25/35 microns	Water	2	1 hour	5789	< 16 white, pastel, deep and transparent tinted

* One bottle (100ml) of Plascon Universal Fungicide can be added to each 5 litre of final coat used in damp, wet areas. For severe conditions, two bottles (2 x 100ml) can be added to each 5 litre of final coat used.

SURFACE PREPARATION:

- After a full site assessment has been conducted, select the appropriate surface preparation required from Surface Preparation clauses for remedial procedure.

APPLICATION: Full Primer:

- Apply one coat of Professional Damp Plaster Paint (PSB 600) over the affected area to a minimum DFT of 25µm (WFT 100µm) and maximum DFT 35µm (WFT 140µm). Allow 16 hours to dry. (water based topcoat)

Finishing Coats

- Apply two coats of Plascon Super Acrylic Polvin (EPL/TAP), allowing 1 hour drying between coats.

* One bottle (100ml) of Plascon Universal Fungicide can be added to each 5 litre of final coat used in damp, wet areas. For severe conditions, two bottles (2 x 100ml) can be added to each 5 litre of final coat used.

Please Note:

Always maintain a wet edge and avoid downing tools during the application process to prevent lap marks and variances in colour or texture. Work from corner to corner, or from a natural cut off point to another. Do not attempt touch ups, but redo complete panels.

SPECIFICATION SHEET NO. 6**APPLICABLE LOCATIONS:**

EXTERNAL PREVIOUSLY PAINTED CAST IRON :: DOWN PIPES

REPAINT: Exterior**SUBSTRATE:** Wrought Iron**PAINT FINISH :** **Velvagio Water Based**
(Premium Quality Satin Finish Non Drip Waterbased Enamel)PRODUCT CODE: **VLW****COLOUR :** White plus Plascon colour system and other fan decks**ENVIRONMENT:** The Maintenance Cycle is a Guide but can vary due to micro-climate changes identified on the site which will effect the longevity of the coating system
As per SANS 10305-1:2012 Edition 1.2, Section 4.1.3: Severe**Maintenance Cycle:** 6 years

Plascon Coating System	Application Method	Spreading Rate (m ²)	WFT/DFT μ m (min & max)	Reducer/Cleaner	No. of Coats	Overcoating time, h @23°C	Technical Data Sheet No	TVOC g/litre
Full Primer: Coastcote Etch Primer (SNK2)	brush, roller or airless spray	@ 15 μ m Theo: 7.40m ² /litre Prac: 0.26m ² /litre	WFT: 77/192 microns DFT: 10/25 microns	Coastcote Thinner	1	1 hour		<750
Undercoat: Plascon Universal Undercoat (UC 1)	brush, roller or airless spray	@ 30 μ m Theo: 14.30m ² /litre Prac: 7.90m ² /litre	WFT: 58-93 DFT: 25-40	Mineral Turps (AZH1)	1	16 hours		300
Topcoat: Velvagio Water Based (VLW/TVW)	brush, roller or airless spray	@ 30 μ m Theo: 9.70m ² /litre Prac: 5.50m ² /litre	WFT: 88/118 microns DFT: 30/40 microns	Water	2	4 hours	5305	46-50 white, pastel tinted < 53-60 deep & transparent bases tinted

* One bottle (100ml) of Plascon Universal Fungicide can be added to each 5 litre of final coat used in damp, wet areas. For severe conditions, two bottles (2 x 100ml) can be added to each 5 litre of final coat used.

SURFACE PREPARATION:

- After a full site assessment has been conducted, select the appropriate surface preparation required from Surface Preparation clauses for remedial procedure.

APPLICATION: Full Primer:

- Apply one coat of Coastcote Etch Primer Red Oxide (SNK2) to achieve a continuous film. Allow 1 hour to dry. (water based topcoat)

Undercoat

- Apply one coat of Plascon Universal Undercoat (UC 1) to achieve a continuous film. Allow 16 hours to dry.

Finishing Coats

- Apply two full coats of Plascon Velvagio Water Based (VLW/TWV) to achieve complete obliteration, allowing 4 hours drying between coats.

NB: if white is used, three coats might be necessary to achieve obliteration.

* One bottle (100ml) of Plascon Universal Fungicide can be added to each 5 litre of final coat used in damp, wet areas. For severe conditions, two bottles (2 x 100ml) can be added to each 5 litre of final coat used.

Please Note:

Always maintain a wet edge and avoid downing tools during the application process to prevent lap marks and variances in colour or texture. Work from corner to corner, or from a natural cut off point to another. Do not attempt touch ups, but redo complete panels.

SPECIFICATION SHEET NO. 7**APPLICABLE LOCATIONS:**

EXTERNAL AND INTERNAL NEWTIMBER :: WINDOWFRAMES

NEW WORK: Exterior**SUBSTRATE:** Wood**PAINT FINISH :** **Super Universal Enamel**
(Smooth Finish - Solvent Based, superior high gloss enamel) **PRODUCT CODE: NY 1/G****COLOUR :** White plus Plascon colour system and other fan decks**ENVIRONMENT:** The Maintenance Cycle is a Guide but can vary due to micro-climate changes identified on the site which will effect the longevity of the coating system
As per SANS 10305-1:2012 Edition 1.2, Section 4.1.3: Severe**Maintenance Cycle:** 2 years

Plascon Coating System	Application Method	Spreading Rate (m ²)	WFT/ DFT μm (min & max)	Reducer/Cleaner	No. of Coats	Overcoating time, h @23°C	Technical Data Sheet No	TVOC g/litre
Primer: Wood Primer (UC2)	brush, roller or airless spray	@ 30 μm Theo: 15.00m ² /litre Prac: 8.30m ² /litre	WFT: 56/78 microns DFT: 25/35 microns	Mineral Turpentine (AZH 1)	1	16 hours		422
Undercoat: Plascon Universal Undercoat (UC1)	brush, roller or airless spray	@ 30 μm Theo: 14.30m ² /litre Prac: 7.90m ² /litre	WFT: 58-93 DFT: 25-40	Mineral Turps (AZH1)	1	16 hours		300
Topcoat: Super Universal Enamel (NY 1/G/TSE)	brush, roller or airless spray	@ 30 μm Theo: 16.30m ² /litre Prac: 9.00m ² /litre	WFT: 51/71 microns DFT:25/35 microns	Mineral Turpentine (AZH 1)	2	16 hours	8146	381 white, < 415 tint based

* One bottle (100ml) of Plascon Universal Fungicide can be added to each 5 litre of final coat used in damp, wet areas. For severe conditions, two bottles (2 x 100ml) can be added to each 5 litre of final coat used.

SURFACE PREPARATION:

- Ensure that surfaces are clean, dry and sound.
- Moisture content measured with a Doser Hygrometer B 2 scale A1-A5 (or equivalent), depending on the wood type, must be <14 % before painting.
- Sand wood to a smooth finish with 150 - 220 grit paper in the direction of the grain (depending on the smoothness required). Sharp edges must be rounded off. Dust off.
- Fill holes and other surface defects with Plascon Polyfilla Mendall 90 (801601) working off smoothly while wet. Allow 6- 8 hours to dry, then sand to a smooth finish. Dust off.
- Wash knots and resinous areas with Plascon Lacquer Thinner (ILS 1). Apply Plascon Woodcare Knot Seal (PK 2) to all knots and resinous areas. Allow 1 hour to dry.

**APPLICATION:
Primer Coat**

- Apply one coat of Plascon Wood Primer (UC 2) to achieve a continuous film. Allow 16 hours to dry. (solvent based topcoat)

Undercoat

- Apply one coat of Plascon Universal Undercoat (UC 1) to achieve a continuous film. Allow 16 hours to dry.

Finishing Coats

- Apply two full coats of Plascon Super Universal Enamel (NY 1/G/TSE) to achieve complete obliteration, allowing 16 hours drying between coats.
NB: if white is used, three coats might be necessary to achieve obliteration.
* One bottle (100ml) of Plascon Universal Fungicide can be added to each 5 litre of final coat used in damp, wet areas. For severe conditions, two bottles (2 x 100ml) can be added to each 5 litre of final coat used.
Please Note:
Always maintain a wet edge and avoid downing tools during the application process to prevent lap marks and variances in colour or texture. Work from corner to corner, or from a natural cut off point to another. Do not attempt touch ups, but redo complete panels.

SURFACE PREPARATION: CEMENT PLASTER

SP6 FUNGAL AND ALGAE GROWTH: SODIUM HYPOCHLORITE TREATMENT - MASONRY, PLASTER, ETC.

APPLICABLE LOCATIONS:

INTERNAL WALLS

SP12 PROVIDING A 'KEY' TO OLD PAINT - SUGAR SOAP AND SAND - MASONRY, PLASTER, ETC.

APPLICABLE LOCATIONS:

INTERNAL WALLS

SP14T BROKEN/DAMAGED CEMENT PLASTER & CONCRETE AREAS (SMALL AREAS) - MASONRY, PLASTER, ETC.

APPLICABLE LOCATIONS:

INTERNAL WALLS

SP15DT FINE CRACK REPAIRS (0.08-3MM): PROFESSIONAL WATERPROOFING COMPOUND (PWC520)

APPLICABLE LOCATIONS:

INTERNAL WALLS

SP21 SELLOTAPE TEST FOR CLEANLINESS (CHALKY AND CONTAMINATED SUBSTRATES)

APPLICABLE LOCATIONS:

INTERNAL WALLS

SP29 SUBSTRATE CONDITION AND MOISTURE CONTENT

APPLICABLE LOCATIONS:

INTERNAL WALLS

SURFACE PREPARATION: GALVANISED IRON

SP126 ZINC SALTS (WHITE RUST) - GALVANISED IRON

APPLICABLE LOCATIONS:

EXTERNAL WALLS-GALVANISED STEEL SHEETING

SP121B OLD GALVANISED IRON TOTALLY RUST: PLASCON PLASCOTUFF 3000 (PEX 3004)

APPLICABLE LOCATIONS:

EXTERNAL WALLS-GALVANISED STEEL SHEETING

SP124 ISOLATED PEELING PAINT (CROSS HATCH TEST AND REMOVAL) - GALVANISED IRON

APPLICABLE LOCATIONS:

EXTERNAL WALLS-GALVANISED STEEL SHEETING

SURFACE PREPARATION: MILD STEEL

SP153 RUST - MECHANICAL REMOVAL - WIRE BRUSHING, GRINDING AND COARSE SANDING - MILD STEEL

APPLICABLE LOCATIONS:

EXTERNAL PREVIOUSLY PAINTED STEELWORK

EXTERNAL PREVIOUSLY PAINTED CAST IRON

SP156 RUST CONVERTER - MILD STEEL

APPLICABLE LOCATIONS:

EXTERNAL PREVIOUSLY PAINTED STEELWORK

EXTERNAL PREVIOUSLY PAINTED CAST IRON

SP155 RUST - CHEMICAL REMOVAL - MILD STEEL

APPLICABLE LOCATIONS:

EXTERNAL PREVIOUSLY PAINTED CAST IRON

SP158A SPOT PRIME WITH PLASCON PLASCOTUFF 3000 SERIES (PEX3004/PEH3)

APPLICABLE LOCATIONS:

EXTERNAL PREVIOUSLY PAINTED CAST IRON

SURFACE PREPARATION: WOOD

SP201 KNOTS AND RESINOUS AREAS - WOOD

APPLICABLE LOCATIONS:

EXTERNAL PREVIOUSLY PAINTED TIMBER

SP202 HOLES AND DEFECTS - INTERIOR AND EXTERIOR - WOOD

APPLICABLE LOCATIONS:

EXTERNAL PREVIOUSLY PAINTED TIMBER

SP203 REMOVING PAINT (DRY METHOD) - WOOD

APPLICABLE LOCATIONS:

EXTERNAL PREVIOUSLY PAINTED TIMBER

SP204 REMOVING PAINT (PAINT STRIPPER METHOD) - WOOD

APPLICABLE LOCATIONS:

EXTERNAL PREVIOUSLY PAINTED TIMBER

SP205 PROVIDING A 'KEY' TO OLD PAINT: POLYCELL SUGAR SOAP AND SANDING - WOOD

APPLICABLE LOCATIONS:

EXTERNAL PREVIOUSLY PAINTED TIMBER

SP207 GENERAL - WOOD

APPLICABLE LOCATIONS:

EXTERNAL PREVIOUSLY PAINTED TIMBER

SURFACE PREPARATION GLOSSARY:

SP6 FUNGAL AND ALGAE GROWTH: SODIUM HYPOCHLORITE TREATMENT - MASONRY, PLASTER, ETC.

Scrub the affected areas using a solution of household bleach (3, 5 % sodium hypochlorite solution) mixed 1 part bleach to 2 parts water, brush onto surface and allow 30 minutes to react. After 30 minutes or a marked colour change (lighter), brush clean using a hard bristle brush. Then rinse thoroughly with fresh water to remove all traces of bleach and allow drying.

SUBSTRATE: cement plaster

SP12 PROVIDING A 'KEY' TO OLD PAINT - SUGAR SOAP AND SAND - MASONRY, PLASTER, ETC.

Wash surface with Polycell Sugar Soap solution - 500 g Polycell Sugar Soap Powder (501703) dissolved in 5 litres water to remove surface contaminants. Rinse thoroughly with fresh water and allow drying. Sand paint to a matt finish using 100 grit paper. Dust off.

SUBSTRATE: cement plaster

SP14T BROKEN/DAMAGED CEMENT PLASTER & CONCRETE AREAS (SMALL AREAS) - MASONRY, PLASTER, ETC.

Open damaged area sufficiently to allow repair material to be adequately filled in order to achieve a mechanical bond. Clean away dust, grease and grime from surface. Fill areas with Polycell Polyfilla Masonry Patching Plaster (102003), by using a putty knife or trowel. Smooth off whilst still wet. Allow to dry for 24 hours. Patch prime using Professional Gypsum & Plaster Primer (PP 700) and allow 16 hours drying at 23°C. NB: Texture on repaired areas must be finished off to match the existing profile.

SUBSTRATE: cement plaster

SP15DT FINE CRACK REPAIRS (0.08-3MM): PROFESSIONAL WATERPROOFING COMPOUND (PWC520)

Ensure any debonded or hollow sounding plaster is removed and repaired (refer SP 13). Cracks exhibiting algae or fungal growth should be scrubbed with sodium hypochlorite solution (Bleach mixed 1 part bleach two parts water, brush onto surface and allow 30 minutes to react). Rinse well with clean water and allow drying. Before bridging the crack, apply one coat of Professional Gypsum & Plaster Primer (PP 700) to fine cracks and allow 16 hours drying at 23 °C before overcoating. Brush Professional Waterproofing Compound (PWC 520) thinned 5-10 % with water over the entire fine cracked area to a wet film thickness of 400 µm (a medium pile or short pile roller may be used with thinned material to avoid texturing the coating. Stipples should be smoothed out while still wet using a water wet brush). CRAZED CRACKING: A second diluted coat will be required after a drying time of two hours in order to fill and bridge these cracks.

SUBSTRATE: cement plaster

SP21 SELLOTAPE TEST FOR CLEANLINESS (CHALKY AND CONTAMINATED SUBSTRATES)

Cut a 10-15cm strip of broad Sellotape (+- 50mm) and using your thumb, press it down firmly onto the dry surface. Rip the tape off the surface and immediately stick it down on a sheet of clean, white paper. Check the tape for any discolouration/chalky deposit and if found to be present, the entire cleaning procedure must be repeated. Contaminant free tape must be evident prior to the application of the coating system.

SUBSTRATE: cement plaster

SP29 SUBSTRATE CONDITION AND MOISTURE CONTENT

Ensure surfaces are clean, dry and sound. Moisture content on cement plaster must not be more than 8 % when measured on a Doser Hygrometer B2 scale (or equivalent) and on concrete, not more than 5 % using a B4 scale.

SUBSTRATE: cement plaster

SP126 ZINC SALTS (WHITE RUST) - GALVANISED IRON

Scour entire area with Plascon Metalcare Aquasolv Degreaser (GR 1) in conjunction with Scotch Brite pads. Allow to react for 20 minutes. Remove Plascon Metalcare Aquasolv Degreaser (GR1) and surface contaminants by hydro blasting or with medium hard bristle scrubbing brushes or brooms in conjunction with tap water. Check if the surface is water break-free. If not, repeat process. Allow surface to dry.

SUBSTRATE: galvanised iron

SP121B OLD GALVANISED IRON TOTALLY RUST: PLASCON PLASCOTUFF 3000 (PEX 3004)

Where the Zinc has been depleted the entire corroded areas must be prepared to ISO 8501-1: 2007 St 3 (bright metal finish, e.g. mechanical wire brushing). Prime with one full coat of Plascon Plascotuff 3000 (PEX 3004 Grey/PEH 3) to a DFT of 100-200 µm or WFT of 125-250 µm at a theoretical spread rate of 5.3 m²/litre.

SUBSTRATE: galvanised iron

SP124 ISOLATED PEELING PAINT (CROSS HATCH TEST AND REMOVAL) - GALVANISED IRON

Conduct random 1mm Cross Hatch Testing. Areas below 90 % pass rate must be stripped completely using Removall All Purpose Paint Remover, Brush/Gel Grade (RRA 220). Stir thoroughly until product is uniform in colour. Apply a thick, even layer of stripper onto the coating being removed (1,5-2 times the thickness of the coating to be removed i.e. 70 µm of coating requires 100-150 µm of stripper to be removed effectively). The reaction time required might vary according to the coating type, temperature and weather conditions (2-36 hours). Remove lifted, loose paint using a scraper or high pressure water wash (170-250 bar); pressure wash from bottom up on vertical surfaces to prevent rinse water from de-activating stripper in sections below. The stripped surface must be rinsed with water to remove all chemical residues before painting.

SUBSTRATE: galvanised iron

SP153 RUST - MECHANICAL REMOVAL - WIRE BRUSHING, GRINDING AND COARSE SANDING - MILD STEEL

Remove rust by mechanical wire brushing, grinding or coarse sanding to ISO 8501-01:2007 - St 3 to attain a bright metal finish. Remove dust.

SUBSTRATE: mild steel

SP156 RUST CONVERTER - MILD STEEL

In areas where rust cannot be removed completely, remove all loose rust by scraping and wire brushing. Apply Plascon Polycell Endrust (502102) copiously, but only to areas where tightly adherent rust remains. Allow coating to turn black (minimum 4 hours) before overcoating. Remove Plascon Polycell Endrust (502102) with water where it has not reacted and turned black.

SUBSTRATE: mild steel

SP155 RUST - CHEMICAL REMOVAL - MILD STEEL

Remove rust using Plascon Removall Rust Remover and Concrete Etcher (RCC 120). Stir thoroughly until product is uniform in colour. Apply a thick, even layer of rust remover onto the rusted areas. Allow to react for 30 minutes then wash off using a scrubbing brush with copious amounts of water. For stubborn rust repeat the process. As soon as the surface is a dry prime bare area immediately using Plascon Plascoprime 170 (UC 170).

SUBSTRATE: mild steel

SP158A SPOT PRIME WITH PLASCON PLASCOTUFF 3000 SERIES (PEX3004/PEH3)

Mix base and hardener thoroughly in a 4:1 ratio by volume before use. Spot prime bare and repaired areas with Plascon Plascotuff 3000 Series (PEX 3005 Aluminium/PEH 3) Premix both components of the Plascon Plascotuff 3000 Series (PEX 3005 Aluminium/PEH 3) using a power mixer for 3 minutes and then apply (preferably) by brush to a minimum DFT of 100-200 µm or WFT of 125-250 µm @ a theoretical spread rate of 5.3 m²/litre. Allow 16 hours to cure. NOTE: OVERCOATING TIMES - "should the primer be left for long periods surface contaminants should be washed off using a sugar soap solution and if high temperatures have been experienced sanding or Scotch Brite pads should be used to provide a key for good inter-coat adhesion for top coat."

SUBSTRATE: mild steel

SP201 KNOTS AND RESINOUS AREAS - WOOD

Wash area thoroughly with Plascon Lacquer Thinner (ILS 1) to remove all traces of resin. Treat knots with Plascon Woodcare Knot Seal (PK 2). Allow 1 hour to dry. (Apply two coats if resin is excessive).

SUBSTRATE: wood

SP202 HOLES AND DEFECTS - INTERIOR AND EXTERIOR - WOOD

Fill holes and defects using Polycell Polyfilla Mendall 90 (801601) working off smoothly while wet. Allow 8 hours to dry. Sand to a smooth finish. (Solid Colour Finish). For a clear varnish finish, mix sawdust from sanded wood and varnish to a stiff paste for filling. Allow at least 16 hours drying.

SUBSTRATE: wood

SP203 REMOVING PAINT (DRY METHOD) - WOOD

Remove paint with a scraper, machine or hand sand paint to bare wood in the direction of the grain, using 120 grit paper. Dust off.

SUBSTRATE: wood

SP204 REMOVING PAINT (PAINT STRIPPER METHOD) - WOOD

Remove paint using Removall All Purpose Paint Remover - Brush/Gel Grade (RRA 220). Stir thoroughly until product is uniform in colour. Apply a thick, even layer of stripper onto the coating being removed (1,5-2 times the thickness of the coating to be removed i.e. 70 µm of coating requires 105-150 µm of stripper to be removed effectively. The reaction time required might vary according to the coating type, temperature and weather conditions (2-36 hours). Remove lifted, loose paint using a scraper or high pressure water wash (170-250 bar); pressure wash from bottom up on vertical surfaces to prevent rinse water from de-activating stripper in sections below. The stripped surface must be rinsed with water to remove all chemical residues before painting. Repeat process depending on film build of existing paint.

SUBSTRATE: wood

SP205 PROVIDING A 'KEY' TO OLD PAINT: POLYCELL SUGAR SOAP AND SANDING - WOOD

Wash surface with Polycell Sugar Soap solution - 500 g Polycell Sugar Soap Powder (501703) dissolved in 5 litres water to remove surface contaminants. Rinse thoroughly with fresh water and allow drying. Sand paint to a matt finish using 120 grit paper, finishing with 220 grit paper. Dust off.

SUBSTRATE: wood

SP207 GENERAL - WOOD

Ensure surfaces are clean, sound and dry. To determine the moisture content, use a Doser Hygrometer scale A1-A5 (or equivalent) depending on generic wood type. Measurements should be <14 % before painting. Sand wood with 120 grit paper and finish off with 220 grit paper in the direction of the grain. Dust off.

SUBSTRATE: wood

TABLE OF REFERENCES:

- Technical Data Sheet (TDS) : User must always ensure that latest issue is used.
- B = Brush (ready for use), R = Roller (synthetic, min. 10mm pile) (ready for use), S = Airless spray (ready for use).
- Theoretical spreading rate quoted is for smooth non-porous substrates and does not include allowance for surface profile, porosity, wastage and uneven film application. Suitable allowance should be made according to type of work, method and skill of applicator. Practical spreading rate quoted is an average guide only - actual must be determined by user - see Preamble for formulation how to calculate.
- Overcoating times are at 23°C and 75% relative humidity. Longer times must be allowed under cooler and moist conditions. DO NOT paint during inclement weather and when temperature is below 10°C.
- Fading and chalking will occur to a greater or lesser degree depending on pigmentation and generic binder type.
- NB: Life expectancy may vary, depending on environmental conditions and stresses, within the macro/micro climate of the project.