SPECIALIZED COATING SYSTEMS

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PU DTM HB Satin

Solvent based acrylic polyurethane primer / finish

A two pack, solvent based, high build, acrylic polyurethane primer/finish containing zinc phosphate anti-corrosive pigmentation, highly adhesion promoted and formulated with UV stabilizers.

Intended Uses:

PU DTM HB Satin provides and exceptionally smooth to the touch feel and silky satin appearance. It provides excellent UV resistance and colour stability in external weathering conditions and performs exceptionally well in humid environments. PU DTM HB Satin is pigmented with zinc phosphate to provide passive corrosion protection for direct to metal applications and can be applied directly to mild steel, galvanized steel, aluminium, and stainless steel.

PU DTM HB Satin is a highly thixotropic polyurethane coating allowing for coating build up on vertical substrates without sagging. Used un-thinned by skilled applicator PU DTM HB Satin can be used to create a structured spatter finish to hide surface imperfections and provide a decorative effect.

PU DTM HB Satin is Used in The Following Areas of Application

- Structural steel.
- Agricultural, earthmoving and construction equipment.
- General plant and equipment.
- Roof coatings.
- Wall coatings.
- Metal furniture and framework.

It is particularly designed for use in areas where a semi matt finish is preferred. Ideal for use in highly corrosive environments. Provides versatility where overcoating of intermediates in one coat is not possible using conventional high gloss polyurethane finishes.

Properties:

- Excellent anti-corrosive properties as a standalone product or in combination with epoxy primers.
- Tough and durable.
- Excellent colour and gloss retention.
- Excellent resistance to UV light and atmospheric exposure.
- Non-chalking & non-yellowing.
- Excellent flexibility and durability.
- Over-coatable after atmospheric exposure.
- Resistant to mild chemicals, salt water, mineral and vegetable oils, paraffin's, aliphatic solvent, dilute industrial chemicals & aqueous solutions.

Technical Data:

Colour	RAL, NCS, SABS & other colours matchable
Finish	Satin
Density	1.36 Kg/ Litre
Volume Solids	55% +/-3%
Mix Ratio (Volume)	4 : 1
Activator	PU Activator 60 AL XL
Typical Film Thickness	60 – 80µm DFT per coat
Theoretical Coverage	9.1 m²/ Litre @ 60µm DFT, allow for loss factors
Method of Application	Airless spray, conventional spray, brush, or roller

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Drying Information:

	0°C	5°C	10°C	25°C	30°C	40°C
Touch Dry	-	-	-	1 hr	-	-
Hard Dry	-	-	-	5 hrs	-	-
Overcoating Data – See Limitations						
Substrate Temp.	0°C	5°C	10°C	25°C	30°C	40°C
Minimum	-	-	-	2 hrs	-	-
Maximum	Extended*					

Note:
• Drying and overcoating times quoted are measured at 100µm DFT, at higher film thicknesses times will be increased.
*See limitations.

Certifications:

When Used as Part of An Approved System, PU DTM HB Has The Following Certification:

- Accelerated weathering – QUV Testing (i.e. Ultraviolet light alternating with condensation) – 1000 hours.

Consult a Specialized Coating Systems technical representative for details.

Surface Preparation:

All surfaces to be coated must be dry, clean, and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with International Standard ISO 8504:2000 and SSPC-SP1.

Abrasive Blast Cleaning

For atmospheric exposure best performance will be achieved when PU DTM HB Satin is applied to surfaces prepared to Sa2½ (ISO 8501:2007 or SSPC-SP6 must be achieved. If oxidation has occurred between blasting and application of PU DTM HB Satin, the surface should be re-blasted to the specified visual standard.

Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner.

PU DTM HB Satin is suitable for application to blast cleaned surfaces which were initially to the above standard but have been allowed to deteriorate under good shop conditions for up to 10 days. The surface may deteriorate to Sa2 standard but must be free from loose powdery deposits.

Primed Surfaces

The primed substrate should be dry and free from any contamination and PU DTM HB Satin must be applied with the coating intervals specified in the relevant product data sheet. Damaged or broken-down areas where the substrate has been exposed must be prepared to the specified standard (e.g. SSPC-SP6 or Sa2½ (ISO 8501-1:2007), Abrasive blasting, or SSPC-SP11, Power Tool Cleaning) and primed prior to the application of PU DTM HB Satin.

Application:

Mixing	Material is supplied in two containers as a kit. Always mix a complete kit in the quantities supplied. Once mixed the product should be used within the pot life specified. Stir the base component well with a flat-bottomed paddle or mechanical mixer until product is uniform. Continue stirring and add the entire contents of the activator container. Continue stirring until the mixture is homogeneous. Ensure that sufficient material be mixed so that the product can be applied within its use-able life. The temperature of the mixed product should preferably be above 10°C, otherwise extra solvent may be required to obtain application viscosity.

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Mix Ratio	4 part(s) base : 1 Part(s) PU Activator 60 AL XL by volume		
Pot Life	2 hours @ 25°C		
Airless Spray	Recommended	Tip Range 13 – 23 Thou. Pressure at the tip should not be less than 140 bar (2000 PSI).	
Air Spray (Pressure Pot)	Recommended	Gun	Pressure Feed
		Fluid Tip	1.1mm to 1.6mm
Air Spray (Conventional)	Recommended	Gun	Gravity Feed
		Fluid Tip	1.1mm to 1.6mm
Brush/Roller	Suitable	Typically, 50 – 75µm can be achieved	
Thinner	Solvent XL	0 – 20% depending on application method	
Cleaner	SA65 Thinner	For dry paint & equipment	
Work Stoppage	Do not allow material to remain in spray equipment after use; thoroughly flush and clean all equipment with **SA65 Thinner**. Once the kit has been mixed, they should not be re-sealed and it is advised that of prolonged stoppages, work recommences with freshly mixed units		
Clean Up	Clean all equipment immediately after use with **SA65 Thinner**. It is advisable to periodically flush out spraying equipment during the course of the working day. Frequency of cleaning is dependant of upon the amount sprayed, temperature and elapsed time. Work strictly in accordance with the specified pot life of the material.		

Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	3°C*	5°C	No lower limit
Maximum	45°C	45°C	85%

* Or 3°C above dew point

Limitations:

- This product is not suitable for immersion conditions, when severe chemical or solvent splashing is likely to occur contact for information regarding suitability.
- Maximum film build in one coat is best attained by airless spray. When applying by methods other than airless spray, the required film build is unlikely to be achieved. Application by air spray may require a multiple cross pray pattern to attain maximum film build. Low or high temperature may require specific application techniques to achieve maximum film build.
- Low temperature, high relative humidity and condensation occurring during or immediately after application may result in a matt finish and inferior film.
- Premature exposure to water will cause colour change, especially in dark colours and at low temperatures.
- Overcoating information is given for guidance only and is subject to local climate and environmental conditions. Consult a Specialized Coating Systems representative for specific recommendations.
- Apply in good weather. Temperature of the surface to be coated must be at least 3°C above the dew point. For best results bring the material temperature between 20 – 30°C, unless specifically instructed otherwise, prior to mixing with and application.
- Unmixed material (in closed containers) should be maintained in protected storage in accordance with information given in the STORAGE section of this data sheet.
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating.
- Overcoating aged finishes/topcoats; although no maximum overcoating time is given in the data sheet, certain precautions must be taken prior to overcoating. Slight chalking will have occurred due to UV exposure and the surface will have been exposed to pollutants in the atmosphere. These surface contaminants must first be

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removed by washing with Hydrosolve and light abrasion using Scotchbrite pads followed by rinsing with drinking quality water.

Pack Size:

5 Litre.

Storage:

- Shelf Life:
  - Part A: 24 months minimum at 25°C from date of manufacture. Subject to inspection thereafter.
  - Part A: 12 months minimum at 25°C from date of manufacture. Subject to inspection thereafter.
- Store in dry conditions out of direct sunlight, away from sources of heat or ignition.

Precautions:

For complete safety and handling information please refer to the appropriate Safety Data Sheets prior to using this product.

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