

SpecAqua 1K DTM HB Satin

Water based high build anti-corrosive primer / finish coat

One component, high build, satin finish, water based, hydrophobic coating based on latest generation compact polymer matrix binders and metal-free organic corrosion inhibition technology.

Intended Uses:

SpecAqua 1K DTM HB Satin is a high performance, hydrophobic direct to metal anti-corrosive primer/finish for use on mild steel, stainless steel, galvanized steel, zinc plated steel and zinc phosphated steel when applied creates a flexible, super hydrophobic film and provides excellent corrosion resistance.

The high build characteristic ensures excellent coverage on mechanically abrasive blast cleaned or prepared surfaces, and the satin finish assist in hiding surface imperfections. Applied at 80µm DFT SpecAqua 1K DTM HB Satin is estimated to provide corrosion category C5-I Long. An equivalent epoxy/polyurethane thickness of between 320 – 500µm would be required to achieve similar corrosion resistance.

SpecAqua 1K DTM HB Satin is not very hard and can be top coated with a harder film should enhanced mechanical/chemical resistance be required. i.e. SpecAqua 2K PUD.

The coating is extremely UV stable and weather resistant

Properties:

- High build, non-sag for good film build and obliteration.
- Water based.
- Fast drying, early block resistance.
- Spray or brush application.
- Highly flexible.
- Unsurpassed corrosion protection at thin films.
- Applied direct to metal, no primer is required.
- Easy to use one component product that can be brush, roller or spray applied.
- Crack and peel resistant.
- Resistant to flash rust.
- Early water resistance.
- Provides very good adhesion for subsequent coats.
- Excellent coverage of nuts, bolts, and welds.
- Less working hours due to 1 coat system.
- Eco friendly, without metal, low VOC.
- Less weight, due to lower film thickness.

Technical Data:

Colour	Clear or pigmented		
Corrosion Class	C5 – Very high protection		
Finish	Gloss – 25% @ 60°		
Density	1.28 Kg/ Litre		
Volume Solids	50%		
PVC	25%		
Typical Film Thickness	DFT (µm)	WFT (µm)	Application
	1 x 80	1 x 160	C4 – Long
	2 x 80 to achieve 160	2 x 160	C5I – Long
	Typically, 200µm WFT should not be exceeded per coat.		

Industrial & Protective: Steel & Concrete Protection - Climatic

Page 1 of 3

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

Issue Date:
19/07/2019

Theoretical Coverage	• 6.25 m²/ Litre @ 80µm DFT, allow for loss factors • 3.15 m²/ Litre @ 160µm DFT, allow for loss factors
Method of Application	Brush, roller, or spray
Number of Coats	1 to 2
Viscosity	80 – 85 KU
Dry to Touch (@ 25°C / RH 60%)	20 minutes
Dry to Handle (@ 25°C / RH 60%)	2 hours
Dry to Re-Coat with Waterborne (@ 25°C / RH 60%)	4 hours
Dry to Re-Coat with Solvent borne (@ 25°C / RH 60%)	24 hours @ 60µm
Fully Cured	1 week

Surface Preparation:

The performance of this product will depend upon the degree of surface preparation. The surface to be coated must be clean and free from contamination.

New Work

- Mild Steel: Degrease with Hydrosolve degreaser. Rinse thoroughly with water. Remove any loose rust by coarse sanding, mechanical grinding etc. or Rust Remover Gel. Prime the prepared surface the same day before oxidation of the steel occurs
- Galvanized Steel: Clean with Galvanized Iron Cleaner to achieve a water break free surface. Rinse thoroughly with water to remove all traces of cleaner. Prime same day

Repainting

- Old painted surfaces: Wire brush thoroughly using a dilute solution of Hydrosolve Degreaser to remove all dirt and contaminants. Rinse with fresh water and allow drying. Abrade any rust spots to clean metal and patch prime these spots first. Allow to dry and then apply an even coat of primer.

Application:

Mixing	Material is supplied in plastic containers. This is a one component product and does not require a hardener. Agitate/stir the product well before use to ensure a homogeneous mix and no settlement of pigments.	
Thinner	De-Ionized Water	
Airless Spray	Recommended	Tip range 15 – 23 Thou. Pressure at the tip should not be less than 170 bar (2500 PSI).
Air Spray	2mm needle	
Brush/Roller	Recommended	
Work Stoppage	Thoroughly flush all equipment with water . All unused material should be stored in tightly closed containers. Partially filled containers may show surface skinning and/or a viscosity increase of the material after storage. Material should be filtered, and viscosity re-adjusted before use.	
Clean Up	Clean all equipment immediately after use with water . It is good working practice to periodically flush out the spray equipment during the course of the working day. Frequency of cleaning will depend upon the amount sprayed, temperature and elapsed time, including delays.	
Extra Notes	Good airflow is essential around the object once coated. If the relative humidity limit of 70% is exceeded, drying, and overcoating times will be severely extended.	

	Application below the minimum film forming temperature of the coating and/or poor ventilation will result in poor film coalescence and a powdery cracked film which will require removal prior to re-application.
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Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	8°C*	10°C	10%
Maximum	40°C	40°C	80%

* Or 3°C above dew point

Limitations:

- Do not apply at temperatures below 10°C or if the temperature is likely to fall below 10°C within 4 hours after application.
- Applying thicker than recommended will result in mud cracking.
- 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.
- 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.

Pack Size:

5 & 20 Litre.

Storage:

- Shelf Life: 24 months 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.
- Store at temperatures between 5°C and 35°C.

Precautions:

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