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AQUAPRIME UV

WATER BASED ACRYLIC UNIVERSAL PRIMER

Product Description

AquaPrime UV is a water based acrylic universal primer, specifically formulated for the corrosion protection of carbon steel, galvanised steel and aluminium substrates. AquaPrime UV is fast dry and can be handled and over coated within 24hours. AquaPrime UV has excellent colour stability so it can be used as a single coat primer / finish where required.

Typical Use

AquaPrime UV is the primer of choice for galvanised and aluminium surfaces that are to be insulated with AeroShield 180 T15 or AeroShield 180 S. AquaPrime can be over coated with both water based and solvent based intermediates and top coats (A test patch is always recommended to ensure compatibility).

Technical Data

Volume Solids 46 %+ /- 2%	Temperature Resistance 180°C maximum	Number of Coats 1 or 2	Packaging 20 Lt Steel pails
Colour White and Light grey	Finish Matt	Mix ratio N/A	Solvent Water
Specific Gravity Approx. 1.3 kg/L	VOC 50 grams per Litre		

Recommended Dry Film Thickness

	DFT per coat	WFT per coat	Theoretical Spreading rate m ² /L
Range	75µm -125µm	188 µm - 313 µm	5.3 - 3.2
Recommended	100 µm	217 µm	4.6

Drying times

Substrate Temperature	Touch Dry	Dry to handle	Dry to re coat Minimum	Dry to re coat Maximum	Full Cure
10°C	3 Hours	3 Hours	48 Hours	Indefinite *	8 Days
20°C	1.5 Hours	2 Hours	24 Hours	Indefinite *	5 Days
30°C	1 Hours	1 Hours	12 Hour	Indefinite *	3 Days

Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation.



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AEROSHIELD 180 S

2 PACK WATER BASED POLYURETHANE FINISH

Surface Preparation

Blast cleaning: The performance of AquaPrime will depend on the degree of surface preparation. All surfaces should be clean, dry and free from contamination. Surfaces should be treated in accordance with ISO 8504:2000. The surface shall be blast cleaned to min. Sa 2, preferably Sa 2½ (ISO 8501-1:2007). The surface profile and the anchor pattern shall be between 40 Qm and 70 Qm. The abrasives shall be free from oil, grease, moisture and chloride contamination etc.

Power tool Cleaning: The performance of AquaPrime UV will depend on the degree of surface preparation. Surfaces should be treated in accordance with ISO 8504:2000. The surface shall be cleaned by high pressure steam/ detergent cleaning to remove dirt, grease and/or salt deposits in accordance with SSPC SP1. Power-tool cleaning to min. St 2, preferably St 3 (ISO 8501-1:2007). Care shall be taken to ensure that power-tool cleaning does not polish the steel surface. If the surface being prepared lies adjacent to a coated surface, the power tool cleaning shall overlap the coated surface by at least 25 mm and the coated surface shall be feathered back to a firm edge.

Galvanised and Aluminium surfaces: The performance of AquaPrime UV will depend on the degree of surface preparation. The surface shall be cleaned by high pressure steam / detergent cleaning to remove dirt, grease and surface contamination, fresh water rinse and allow to dry. Care should be taken to remove all zinc salts from galvanised surfaces prior to application. Zinc salts can be dry abraded if necessary with scotch bright pads or similar. Remove all dust and debris prior to application. Corroded areas should Power-tool cleaned to a minimum of St 2, preferably St 3 (ISO 8501-1:2007). Care shall be taken to ensure that power-tool cleaning does not polish the steel surface.

Patch prime with ProTect ST 100µm -125µm DFT overlapping sound galvanised surfaces by 50mm

Application Conditions

Only apply in conditions with good ventilation which must be maintained during drying and curing. Do not apply when rain, mist, sleet or snow are imminent. During application and drying time of the paint coating, the surface should be dry, the Relative Humidity should not exceed 85% and the steel temperature should remain at least 3°C above the dew point. Only apply this product when the above conditions can be maintained throughout the critical application and drying/curing process. Paint temperature should ideally be at a minimum of 15°C.

Application Equipment

Airless spray: Airless Spray: output fluid pressure at tip 1500-2000 psi, Tip Size: 13-15 thou (0.33-0.38mm)

Air assisted airless: Output fluid pressure at tip 1300-1800 psi, Tip Size: 13-15 thou (0.33-0.38mm)

Brush and roller : Thinning is not normally required but 0-5% of clean fresh water can be added if required due to application conditions.

This is a water based paint. Do not apply below 5°C, temperatures above 10°C are recommended. Temperature will have a marked effect on drying times and susceptibility to damage. Do not apply in inclement weather or when rain is due.

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Mixing

Mix 4.3 litres base with 0.7 litre activator, mix thoroughly. (Pot life 2 hours at 20°C). Mix thoroughly with an air fed power mixer or an electric mixer.

Clean-up

Clean up immediately after use with fresh water. Discard clean up material according to local environmental regulations.

Precautions

This product is for use only by Professional Applicators in accordance with information in this Technical Data Sheet and the Safety Data Sheet (SDS). Refer to this product's SDS before using this material.

Material Storage

Store all coating materials in a dry place as close to room temperature as possible. Ideal storage temperature should be between 10°C to 27°C. Keep cans sealed and out of direct sun light when not use. Warm up cold material to room temperature before using. Do not allow the coating to freeze.

This information is given in good faith for the guidance of users but without warranty or liability. Any queries should be referred to our Technical Department. The above information, based on laboratory tests and practical experience has been proved valid at the date marked on the product data sheet. When necessary verify the validity of the product data sheet. The quality of the product is ensured by our operational system, based on the requirements of the standards ISO 9001. As a manufacturer, we cannot be responsible for any damages caused by using the product against our instructions or for inappropriate purposes. This product is for professional use only.