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Technical Data Sheet for: SOLACOAT WB PRIMER (Metal) 2020

Description

Solacoat's WB Primer is a novel water-based primer based on acrylic resin and a zinc phosphate complex that has exceptional adhesion to both ferrous and non-ferrous metals with good anti-corrosive properties on Metal Roofing & mild steel. The WB Primer may be top-coated with both water based and solvent based coatings.

Features

- Fast drying
- Lead and zinc chromate free
- Excellent for use as a shop primer in prefabrication on mild steel work
- An excellent primer on metal roofing/walls, aluminum and good on zinc coated metals
- Good gloss holdout
- Can be top-coated with conventional water based and solvent based coatings
- Low VOC.

Areas of Application

Suitable for new and old metal roofs and walls, general shop work and production line work, tanks, pipes, agricultural parts. Normally over coated with conventional air-drying, spraying finishes such as Insul-Insulation.

Typical Specifications

Surface	Preparation	System	Dry Film Thickness
Mild Steel	Remove rust, clean and degrease.	First Coat: WB Primer Top Coat: As mentioned above	40-50µm 60-75µm
Galvanised and zinc coated steel and aluminium	Clean and degrease. Smooth and polished aluminium may need abrading with a nylon pad.	First Coat: WB Primer Top Coat: As mentioned above	40-50µm 60-75µm

Please Note: The WB Primer applied at 40-50µm should be allowed to dry a minimum of 2 hours for top-coating with conventional water-based coatings and 4 hours before applying solvent based topcoats.

Surface Preparation

Mild Steel

Remove light surface rust with a rust converter according to manufacturer's instructions or clean and degrease with a Wax and Grease Remover. Prime with WB Primer to 40 -- 50 microns.



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SOLACOAT WB PRIMER (Metal) Cont:

Galvanised and Zinc Coated Steel, Aluminium and most non-ferrous metals.

Clean with Wax and Grease Remover. Allow to dry. Smooth polished aluminum may need to be lightly abraded with a nylon pad. Apply WB Primer at 40 -- 50 microns dry film thickness.

Mixing Instructions

Stir thoroughly until uniform consistency.

Application

Do not apply WB Primer if substrate temperature is below 15°C or above 85% relative humidity.

Brush or Roller

Thinning not required, taking care not to over brush or over roll the coating.

Airless Spray

Thin approx. 5-10% with clean water. Tip orifice 0.013" to 0.015". Apply at 14 to 17 Mpa atomising pressure. Apply one coat to a dry film thickness of 40 - 50microns.

Conventional Spray

Thin approx. 15%. Apply at air atomising pressure of 350 to 400kPa. Apply one coat to a dry film thickness of 40 - 50microns.

Thinner

Water

Cleaner

Initially water to remove the bulk of the material then use a final rinse of methylated spirits or lacquer thinners. Alternatively use warm soapy water.

Approximate Coverage

Practical at 40micron dft	Brush or roller	9.0m ² /L
	Airless spray	8-14m ² /L
	Conventional spray	8-14m ² /L



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Properties

Colour:	Light Grey.
Gloss:	Low
Drying time:	Approximate air drying times at 25°C and 40 microns dry film thickness 10 -- 15minutes
Dust free:	20 -- 30 minutes
Touch free:	2 hours
Hard dry:	2 hours for water-based products
Recoating Time:	4 hours for solvent based products. These times are quoted for 25°C, 50% relative humidity and reasonable air movement. Cold damp conditions with little or no air movement will increase the recoat times. By weight approximately 51% By volume approximately 40% Approximately 1.23kg.
Solids:	18 months when stored in original, unopened contained and store in cool, dry conditions above freezing and out of direct sunlight.
Weight per Litre: Shelf life:	Non-flammable. Good when top-coated.
Resistance Properties:	
Abrasion:	Good
Heat: 120°C	Up to
Solvent:	Moderate
Oil and Petrol:	Moderate
Chemical:	Limited

VOC

The WB Primer has a Volatile Organic Content (VOC) of less than 120 grams per litre.

Precautions

When applying in a confined space, use suitable respiratory protection. In common with other solutions WB Primer should not be allowed to remain on the skin and normal hygiene standards should be observed when using this product.