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Date Issued: 23 September, 2009

ACQUAPRIME WB ALL METAL PRIMER

Product Line: 5601

Product Code: 560101; 560104; 560115

Description

Acquaprime WB All Metal Primer is a novel water based primer based on acrylic resin and a zinc phosphate complex that has exceptional adhesion to both ferrous and nonferrous metals with good anti-corrosive properties on steel. Acquaprime WB All Metal Primer is designed to be top-coated on metal roofs and metal wall cladding.

Features

- Fast drying
- Lead and zinc chromate free
- An excellent primer on steel, aluminium and good on zinc coated metals
- Good gloss holdout
- Low VOC emissions.

Areas of Application

Suitable for metal guttering, metal downpipes, galvanised metal roofs, zincalume metal roofs and general metal fittings. Normally over-coated with environmentally friendly water based coatings such as Sunshield Acrylic range of coatings.

Typical Specifications

Surface	Preparation	System	Dry Film Thickness
Structural Steel	Abrasive blast clean to AS1627.4 Class 2	First Coat: Acquaprime WB All Metal Primer Top Coat: 2 coats Sunshield Acrylic	30 - 40µm 50 - 60µm
Mild Steel	Remove rust, clean and degrease.	First Coat: Acquaprime WB All Metal Primer Top Coat: 2 coats Sunshield Acrylic	30 - 40µm 50 - 60µm
Galvanised and zinc coated steel and aluminium	Clean and degrease. Smooth and polished aluminium may need abrading with a nylon pad.	First Coat: Acquaprime WB All Metal Primer Top Coat: 2 coats Sunshield Acrylic	30 - 40µm 50 - 60µm

Please Note: Acquaprime WB All Metal Primer applied at 30 - 40 microns dry film thickness should be allowed to dry a minimum of 4 hours under good conditions for top-coating with conventional water based coatings.

Surface Preparation

Ensure that all necessary repairs such as fixing of loose or missing roofing parts are remedied prior to cleaning and/or coating. Do not seal gaps, fasteners or fixtures with silicone sealants prior to painting as most paints do not adhere well to these sealants. If silicone sealant is to be used, then it must be used after the coating system has been applied. Existing silicone sealant must be totally removed prior to painting and re-applied after the coating system has been applied.

Steel

Excellent performances will be achieved by abrasive blast cleaning to AS1627.47 Class 2. However, good results can be achieved in mild exposure conditions on power or hand tool cleaned surfaces to AS1627.2 or AS1627.7. Prime with Acquaprime WB All Metal Primer to 30 - 40 microns dry film thickness.

Mild Steel

Remove light surface rust with a rust converter or clean and degrease with Wax and Grease Remover. Prime with Acquaprime WB All Metal Primer to 30 - 40 microns.



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

Clean with Wax and Grease Remover. Allow to dry. Smooth polished aluminium may need to be lightly abraded with a nylon pad. Apply Acquaprime WB All Metal Primer at 30 - 40 microns dry film thickness.

Previously painted metal roofs/ wall cladding, existing non-coated metal roofs.

Ensure that the necessary repairs/ maintenance has been performed to address structural deficiencies etc as listed under the heading 'Surface Preparation'. Ensure that all water storage tanks, if present are totally disconnected from the roof. Water blast the entire roof at a minimum of 2500 psi pressure to remove all chalked residues, dirt, organic matter, loose or flaking paint and all corrosion products if present. Feather sand any sharp edges. Rinse the roof or walls to remove cleaning residues. Rusted areas should be treated with a propriety rust treatment or conversion product used according to the label instructions.

Spot prime any treated rusted areas with Acquaprime WB All Metal Primer and allow to dry. Apply a full coating at 30 – 40 microns dry film thickness ensuring that all faces of profiled sheeting are adequately coated to specification.

Mixing Instructions

Stir thoroughly until uniform consistency.

Application

Do not apply Acquaprime WB All Metal Primer below 10°C substrate temperature or above 85% relative humidity. Do not apply if rain is expected within 4 hours or if temperature will fall below 10°C before the coating can dry.

Brush or Roller

Thinning not required, taking care not to over-brush or over-roll the coating. Ensure that all surfaces are adequately coated.

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 two medium double header coats to a dry film thickness of 30 – 40 microns ensuring that all surfaces are coated to specification.

Conventional Spray

Thin approx. 15%. Apply at air atomising pressure of 350 to 400kPa. Apply two medium double header coats to a dry film thickness of 30 – 40 microns ensuring that all surfaces are coated to specification.

Thinner

Water

Cleaner

Initially water to remove the bulk of the material then use a final rise of methylated spirits or Luxury MP Thinners. Alternatively use warm soapy water.

Approximate Coverage

Practical at 40micron dft	Brush or roller	9.0m ² /L
	Airless spray	9.3m ² /L
	Conventional spray	8.0m ² /L

Note: Allowances should be made for product losses due to the exposed application conditions and metal profiles.



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Properties

Colour:	White.
Gloss:	Low
Drying time:	Approximate air drying times at 25°C and 40 microns dry film thickness
Dust free:	10 - 15minutes
Touch free:	20 - 30 minutes
Hard dry:	2 hours
Recoating Time:	4 hours for water 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.
Solids:	By weight approximately 51% By volume approximately 40%
Weight per Litre:	Approximately 1.23kg.
Shelf life:	18 months when stored in original, unopened contained and store in cool, dry conditions above freezing and out of direct sunlight.
Flash Point:	Non flammable.
Durability:	Good when top-coated.
Resistance Properties:	
Abrasion:	Good
Heat:	Up to 120°C
Solvent:	Moderate.
Oil and Petrol:	Moderate.
Chemical:	Limited.

VOC Emissions

Acquaprime WB All Metal Primer has a Volatile Organic Content (VOC) of approximately 68 grams per litre.

Precautions

When applying in a confined space, use an airline respirator. In common with other solutions Acquaprime WB All Metal Primer should not be allowed to remain on the skin and normal hygiene standards should be observed when using this product.

If applying Acquaprime WB All Metal Primer to roofs that are connected to water storage tanks, the tanks must be completely disconnected from the roof prior to cleaning and/or coating. The tanks must remain disconnected until at least 12mm of rain has fallen on the roof or it has washed down after a minimum of two weeks drying.