

HYDRO WOOD & METAL PRIMER
Updated Nov'24


Hydro Wood & Metal Primer is a water-based acrylic emulsion, specially formulated to be used as an undercoat and primer for wood and metal substrates. This new breakthrough formulation contains anti-corrosive agents to provide stronger protection for metal surfaces. It has exceptional adhesion to wood surfaces, steel surfaces, coloured metal roofs, aluminium hand railings, and door frames. The primer is white in colour, providing a suitable base for most other coatings to achieve a smooth finish.

Product Features:

- Excellent anti-corrosion on iron and steel surface
- Excellent adhesion on wood and metal surfaces
- Excellent inter-coat adhesion with wide range of water-based products
- Easy application
- Low VOC

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Water based	Exterior / Interior	Matt	Wood surfaces, Steel surfaces, coloured metal roof, aluminium hand railings and door frame.	1 Litre and 5 Litres

Composition

Pigment	: Mainly Titanium Dioxide, Mineral Extender
Binder	: Pure Acrylic Emulsion
Thinner	: Water

Technical Data

Drying Time	: Touch Dry : 30 minutes (Dependent on temperature and humidity)
	: Hard Dry : 40 minutes (Dependent on temperature and humidity)
Recoating Time	: 2 hours (Dependent on temperature and humidity)
Dry Film Thickness	: 40 - 50 µm per coat (based on substrate condition)
No. of Coats	: 1 - 2 coats
Theoretical Coverage	: ~ 10 m ² per litre per coat (for dry film thickness of 40µm)
Volume Solid	: ~ 38% by volume
Shelf Life	: Up to 36 months in tight sealed container

Application Method

Spray : When airless spray is being used, excessive high tip spraying pressure should be avoided. The minimum pressure at the pump conducive with good atomisation should be used.

Airless Spray Guiding Data

Tip Size	: 0.015" - 0.017"
Tip Pressure	: ~ 140 - 170 kg/cm ²
Spray Angle	: 60 - 70°

Brush / Roller : Good quality brushes and mohair / short nap rollers should be used with full strokes. Avoid re-brushing. Thin up by maximum 5% by volume of water for if necessary. Two coats may be required for uniform hiding and film thickness.

Recommended Coating System
Interior Wood, Metal, Aluminium Hand Railings and Door Frame

Sealer / Primer	: Hydro Wood & Metal Primer	: 1 - 2 Coats
Top Coat	: Hydro Finish (Gloss / Soft Matt)	: 2 Coats

Exterior Coloured Metal Roof

Sealer / Primer	: Hydro Wood & Metal Primer	: 1 - 2 Coats
Top Coat	: Solaroof / Roof Coating	: 2 Coats

Surface Preparation**Wood**

Wood must be dry and free from dirt, grease and other contaminants. Smoothen surface with sand paper, then clean off and dry.

Metal

Surface to be coated must be dry and free from mill scale, rust, grease, oil and other contaminants. For galvanised and aluminium, through degreasing is necessary prior to the application of Hydro Wood & Metal Primer. Any loose and flaking paint film must be water jetted or scraped off. Defective areas should be sanded and smoothen; rust must be thoroughly removed from ferrous substrate. The area should be spot primed. Light sanding on surface would ensure better subsequent intercoat adhesion. The entire surface to be painted must be cleaned thoroughly and dry, it must be free from dirt, grease, and other foreign matters. Allow all surfaces to dry completely prior to painting.

Cleaning

Clean up equipment with water immediately after use.

Environmental Conditions During Application

1. Do not apply when the relative humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point.
2. The surface temperature for application is 7°C but drying and over coating times will be considerably extended.
3. During application of the paint, naked flames, welding operations and smoking should not be allowed and adequate ventilation should be provided.

Safety Precautions

- Keep container tightly closed and keep out of reach children or away from food and drink.
- Ensure good ventilation during application and drying.
- When applying paint, it is advisable to wear eye protection.
- In case of contact with eye, rinse with plenty of water immediately and seek medical advice.
- Remove splashes from skin by using soap or water.
- Paint must always be stored in a cool place.
- When transporting paint, care must be taken. Always keep container in a secure upright position.
- Discard any paint waste in accordance with the appropriate Environment Quality Regulations.

Note

* Theoretical Coverage is based on a mathematical formula

$$\left[\frac{\text{Volume Solid \%} \times 10}{\text{Dry Film Thickness}} \right] = \text{m}^2/\text{lit}/\text{coat}$$

and does not consider LOSS FACTORS.

Variables like porosity of substrate, application method, dilution ratio, dry film thickness, opacity and so on will affect the loss factor and can vary from 30% - 50% or even more.

The above information is given to the best of our knowledge based on laboratory tests and practical experience.

However, since we cannot anticipate or control the many conditions under which our products may be used, we can only guarantee the quality of the product itself.

We reserve the right to alter the given without prior notice.