



TEVO RED OXIDE PRIMER

TECHNICAL DATA SHEET

Tevu Red Oxide Primer is a water based acrylic emulsion primer. It has an exceptional adhesion to steel, metal and aluminum surfaces and thus provides a suitable base for other coatings to adhere satisfactorily. It offers a substitute and an alternative to alkyd based Red Oxide. It is also a direct replacement of Alkyd oil-based coatings.

Product Features:

- Good anti-corrosion for iron and steel surfaces.
- Good adhesion on metal surface.
- Good inter-coat adhesion with wide range of water based products.
- No or low odour, low VOC or No VOC.
- UV stable.
- Water soaking stability for 1 year stable.
- Salt spray 24 hrs.
- Easy to repair a defect.

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Water based	Exterior / Interior	Matt/Gloss	Steel surfaces, colored metal roof and aluminum	1 Liters and 3.64 Liters

Composition

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

Technical Data

Drying Time	: Touch Dry : 10 minutes (Depends on temperature and humidity)
	: Hard Dry : 40 minutes (Depends on temperature and humidity)
Recoating Time	: 2 hours (Depends on temperature and humidity)
Dry Film Thickness	: 20 - 50 µm per coat (based on substrate condition)
No of Coats	: Two coats with brush, roller or spray
Theoretical Coverage	: ~ 10 m ² per liter per coat (for dry film thickness of 35µm)
Volume Solid	: ~ Forty percent by volume
Shelf Life	: Up to 24 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 atomization 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 to 10 - 15% by volume of water for proper flow-out. Two coats may be required for uniform hiding and film thickness.



Recommended Coating System		
Sealer / Primer	: Tevo Red Oxide Primer	: 1-2 Coats
Topcoat	: Roof Coating / Metallic Paint	: 2 Coats

Surface Preparation
 Surface to be coated must be dry and free from mill scale, rust, grease, oil, and other contaminants. For galvanized and aluminum, thorough degreasing is necessary prior to the application of Tevo Red Oxide Primer.

Any loose and flaking paint film must be water jetted or scraped off. Defective areas should be sand smoothed and rust must be thoroughly removed from ferrous substrate. The area should be spot primed.

Light sanding on surface would ensure better subsequent intercut adhesion.

The entire surface to be painted must be cleaned thoroughly and dried. 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.
 Wash your hands with ample water and in case it gets into eyes then see the physician immediately.

- 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 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 of children or away from food and drinks.
 - 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.
 - Dispose of any paint waste in accordance with the appropriate Environment Quality Regulations.

Note

* Theoretical Coverage is based on a mathematical formula and

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

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 data without prior notice.