Technical Data Sheet

Topxy Metal Primer 1500

Product Description

A high-performance, two-component epoxy-based primer designed to deliver exceptional corrosion resistance on metal substrates. Engineered for superior structural integrity, it offers outstanding resistance to abrasion and chemicals. Ideal for application on bare or sandblasted metal surfaces, the product provides enhanced protection against corrosion in demanding environments.

Product uses:

- Provide robust anticorrosive and anti-rusting protection on iron and steel substrates. It serves as an ideal base layer prior to the application of waterproofing membranes and protective coatings.
- Suitable for use on galvanized metal and fiberglass surfaces
- Enhances durability and corrosion resistance in harsh environments.
- Typical applications include silos, steel bridges, fences, metal roofs, pipes, and reinforcement bars.

Properties

- Excellent adhesion to ferrous and non-ferrous metal surfaces.
- Provides long-lasting corrosion protection.
- Highly resistant to acids, alkalis, oils, gasoline, solvents, and saltwater.
- Outstanding durability against water, freezing conditions, humidity, and extreme weather.
- Easy to apply with brush, roller, or spray.
- Suitable for both indoor and outdoor environments.
- Extended working time and pot life for flexible application.

TECHNICAL PROPERTIES

Appearance/Color	Semi flat / Gray & Red Oxide and White
Density:	1.45 kg/liter (Mixed)
Volume solids %:	55 %
Theoretical spreading rate:	7.34 m^2/ltr / 5 m^2/kg (75 micron DFT)
Consumption:	0.136-0.145 ltr/ m^2 (200-250 g/m^2)
Recommended DFT:	75-125 micron
(Dry Film thickness)	
Flash Point:	25° C. /77°F
Pot Life:	2 hours (23°C and 50% R.H.)
VOC:	10 g/ltr
Surface dry:	1 approx. hour(s) 23°C/73.4°F 50% R.H
Full dry:	24 hours (23°C and 50 % R.H.)
Full cure time:	7 days (23°C and 50 % R.H.)
Application temperature:	+8 °C/46.4° F and +35 °C/ 95°F
Min. cure temperature:	+10°C/50°F

Application Details

Mixing Ratio:	Component A: 7– Component B: 1 (By weight)
Application method:	Brush – Roller – Airless Spray
Thinner:	Epoxy Thinner
Thinner Amount:	Brush (Do not thin) – Roller (10 %) - Airless spray (5-7 %)

Surface Preparation:

- Surfaces must be dry, clean and free from contaminants
- Ensure removal of dirt, dust, oil and all other contaminants that could interfere with adhesion of the primer.
- Oil and grease should be removed as per SSPC-SP1 solvent cleaning with aromatic solvents.
- Surface should be checked and treated in accordance with ISO 8504 prior to priming.
- Blast Cleaning:

- Steel, abrasive blast clean to min. Sa 2 1/2 (ISO 8501-1: 200) or SSPC –SP6.
- Incase oxidation has occurred between blasting and application of Topxy Metal Primer 1500, the surface should be re blasted.
- A blasting profile of (Rz) 30 - 50 microns is recommended
  - Damaged Area:
- Damage area should be prepared with abrasive blast cleaning to Sa 2½ (ISO 8501-1:2007). When abrasive blasting in small area is not possible, mechanical cleaning to St 3 (ISO 8501-1:2007) is acceptable.
- The product should be applied over a surface that is dry and free from all contamination and must be applied within the over coating intervals specified (refer to application section for details).
  - Galvanized surfaces:

  Remove zinc salts by power or hand tool cleaning. Solvent clean the surface to make it free from oil, grease, loose particles
  - For aluminum:

  Solvent cleaning followed by blast cleaning with a fine grade abrasive or by chemical etching.

PRECEDING COAT:

Nothing

Important Remarks:

- Surfaces must have enough structural strength.
- Concrete should have minimum of 25 N/mm² compression resistance and minimum 1, 5 N/mm² tensile strength.
- Applications below 10°C should be avoided.
- High temperatures lower the pot life of the product, while low temperatures extend cure time and consumption.
- Be careful about product mixing ratios.
- The surface should be protected from moisture and rain for 8-10 hours after application.
- All application tools and equipment should be cleaned with thinner immediately after the use. Cured material can only be removed mechanically.

- Use only where application and drying can proceed at temperatures above: 10°C/50°F. The temperature of paint itself should be 15°C/59°F or above. Apply only on a dry and clean surface with a Temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying.
- The natural tendency of epoxy coatings to chalk in outdoor exposure.

Shelf life & Storage:

24 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

Safety:

For information and precautions on the safe handling, transportation storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Mixing:

Before mixing with the curing agent, stir the base thoroughly in order to prevent any possible settling after storage. After mixing it is equally important to maintain stirring to keep the wet paint as a Homogeneous mixture.

Legal Notice:

The information presented herein is given in good faith but without warranty. It's based on our experience, indicates our laboratory work results and does not necessarily indicate final product performance. We cannot be held liable for the results obtained with our products and for any loss or accident that may result from its use. Our suggestions don't release you from the obligation to check their validity and to test our products for both your process and end use application. All our products are sold in accordance with our General Conditions of Sale. We don't make any warranty, express or implied, including but not limited to the merchant ability and fitness for a particular purpose.