

TECHNICAL DATASHEET

EPOXY ZINC RICH PRIMER

PRODUCT DESCRIPTION

A two component zinc rich primer with an extremely high proportion of metallic zinc dust (more than 80 % on total formula) yielding outstanding protective system due to the corrosion resistance provided by zinc dust and the high performance of epoxy binder.

PRODUCT BENEFITS

- 1- Strong adhesion
- 2- Long-term protection
- 3- Chemical & Mechanical resistance
- 4- Excellent heat resistance
- 5- Easy mixing
- 6- Excellent corrosion resistance

RECOMMENDED USES

Excellent corrosion preventive primer on exterior and interior metal and galvanized surfaces such as steel structures, marine locations, pipe lines, refineries, chemical plants, storage tanks, machinery, ship-building steel plates, bridges...

PHYSICAL AND CHEMICAL PROPERTIES

Physical Properties

Technology	Epoxy
Physical State	Viscous Liquid
Appearance	Comp. A Viscous Liquid Comp. B Amber Liquid Two Components- requires mixing 4 parts Base to 1 part Activator by volume
Pot Life	4-6 hours (depending on weather and application conditions)
Color	Grey

Component A

Specific Gravity, ISO 2811	2.7 ±0.05 g/cm ³
Viscosity, ISO 2884	17 poises

Component A+B

Drying Time, ASTM D 5895	30 min-1 hour to touch.
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Recoat Time	4-6 hours
Theoretical coverage	8 - 10 m ² /L

Sag Resistance, ASTM D 3730	Excellent
Leveling, ASTM D 2801	Excellent

Scratching Resistance	Excellent
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Chemical Resistance	Resists most chemical environments- when used with the recommended topcoat
Heat resistance	Can be used on heated surfaces
Water resistance	Excellent

Chemical Properties

Component A

% Solids by Weight	85 ± 2%
% Solids by Volume	54 ±2%
% Zinc dust pigment	85 ±2%

Component B

% Solids by Weight	30 ± 2%
% Solids by Volume	29 ± 2%

SURFACE PREPARATION

Surfaces must be solid, clean and dry, free from rust, oil, salt, dirt, and other contaminants.

TREATMENT OF NON-PAINTED STEEL SURFACES

Rust, mill scale and contaminants should be removed. Best results are obtained by abrasive blasting. Steel in highly corrosive environments should be sand blasted. If oxidation occurs between the time of sand blasting and priming, the surface should be reblasted and cleaned.

TREATMENT OF PREVIOUSLY PAINTED SURFACES

Rust spots and disintegrated coatings should be removed by spot sand blasting and properly cleaned, preferably with pressurized water cleaning. Hot-dip-galvanized surfaces need pre-treatment and should be free from contaminants, zinc corrosion or oxidation products (white rust) zinc ash or salts. Weathered surfaces could be washed with water containing detergents, followed by thorough cleaning with hot water preferably pressurized water).

Apply the primer when the substrate is completely dry.

Unweathered surfaces should be treated by sweep blasting using a non-metallic abrasive tool to clean and roughen the surface.

MIXING/THINNING/APPLYING

Combine phase A (base) with phase B (Hardener Epoxy ZINC RICH.) according to the ratio: 4 parts Base to 1-part Activator by volume. Keep the mixture for 10 – 15 min before use.

Thin the mixing with Thinner Epoxy Zinc Rich.

Apply one coat on the substrate. Recoat if necessary.

Zinc rich Epoxy Primer can be top coated with all epoxy coatings and polyurethane paints.

Clean tools and equipment with solvent immediately after use.

EQUIPMENT:

Brush (only for small areas), Roller, spray (conventional or airless)

Gravity or Suction Feed:

Nozzle set: 1.5 – 1.9 mm (1,5 – for thinner layers)

Spray gun “High pressure”: 3.0 – 4.5 bar (42 – 65 psi)

Spray gun “Reduce pressure”: 1.5 – 2.5 bar (21 – 36 psi)

HVLP (Air cap pressure): 0.7 bar (10 psi) maximum

Airless/Airmix 0.009 – 0.015

Pressure Pot 1.0 – 1.5mm

CAUTION

Flammable Liquid and Vapor

For more safety information, please ask for MSDS

PACKING

In cylindrical tin containers of the following capacities:

- 1 US Quart = 0.95 L.
- 1 US gallon = 3.78 L.
- 1 Pail (5U.S.G.) = 20L

Each container is supplied with its appropriate pack of relative hardener.

STORAGE

Avoid frost & excessive heat.

The technical information contained in this Technical Data Sheet is to be understood as advice only and not binding in any respect.

All details about working with our products should be adapted to prevailing local conditions and materials used.