

916 EPOXY MASTIC

Description

Two component high solids epoxy coating, polyamide adduct cured. It forms a hard and durable film with mechanical and chemical resistance (surface tolerant epoxy). It is ideal for protecting industrial structures as self-primed or intermediate or topcoat (where gloss, color retention and cosmetic effect is of less importance), providing long-term protection. It contains zinc phosphate as anticorrosive additive. Ideal for metallic and cement industrial constructions that demand strong chemical resistance. Suitable also as a self-primed coating. It is offered after request in MIO (micaceous iron oxide), which contains organometallic iron oxide (micaceous) for extra anticorrosion protection. Ideal for heavy duty industrial applications, chemical plants, for costal, offshore and marine applications, buried metallic structures, for soil-immersion use, etc.

Properties

- Surface tolerant - Heavy duty
- High solids
- Excellent anticorrosive properties
- Low temperature curing
- Multi-purpose use as self-primed, Intermediate or topcoat

Technical Information

Shade Any RAL upon request
 Gloss Semi-gloss
 Specific Weight A component 1,55 - 1,60 kg/lit (depending on the base)
 B component 1,00 kg/lit
 A+B 1,45 ±0,05 kg/lit
 A component (MIO) 1,79 kg/lit
 A+B (MIO) 1,58 ±0,05 kg/lit (EN ISO 2811)
 Theoretical Coverage 5,45 m²/kg (100µm)
 Temperature resistance Up to 120°C (service temperature)
 Solids content (A+B) 79±2% by volume
 Mixing ratio A:B-5:1 by weight (A:B - 3,125:1 by volume)
 Pot life 2-3 hrs (25°C) Temperature increase reduces the pot life.
 VOC* (A+B) 201 g/lit
 Ready for use (+5% thinner): 231 g/lit
 EU LIMITS (2010): 500 g/lit
 SUBCATEGORY: j – two pack performance coatings, primer coat for ferrous substrates, anticorrosion finish, Type SB

Drying Time
150µm, 60%RH
(5°C)
(15°C)
(25°C)
(35°C)

Pot life	Touch dry	Dry	Dry to recoat (Min)	Dry to recoat (Max)	Full Dry
4 hr		30 hr	36 hr	12 days	16 days
3 hr		18 hr	22 hr	7 days	9 days
2 hr	4-5 hr	10 hr	11 hr	5 days	6 days
1 ½ hr		9 hr	10 hr	4 days	5 days

The above pot lifetimes refer to material without addition of thinner. After adding thinner, a small increase in the pot life is expected. The above times are indicative and depend on the thinning percentage, substrate conditions, film thickness, weather conditions (relative humidity, wind, sunshine).

Surface preparation

All application on steel, including welding, cut with flame and smoothing, must be terminated before the preparation of the surface. Cleaning of the surface from dust and other materials like oil, grease etc using special detergent and fresh water under high pressure. The alkaline remnants of the recent welding joints as well as the traces of soap, must be removed with fresh water and rubbing. For better results, sandblast is recommended at least Sa 2 ½, ISO 8501-1. If it is necessary, the surface could be treated with a two-component anticorrosive primer (i.e., 812 EPOXY PRIMER or 751 EPOXY ZINC PRIMER or 851 INORGANIC ZINC PRIMER).

Application

Thoroughly mix components A: B-5: 1 (by weight).

No induction period is required for applications in temperatures above 15°C.

Induction period for applications in temperatures below 15°C: 10-15 min.

Proposed use mechanical stirrer. It is important to stir both around the walls and at the bottom of the mixing container, so the hardener is evenly distributed.

It is applied with:

AIRLESS (nozzle 0,43-0,58mm (0,017-0,023in)) after 5% thinning with thinner.

AIR PISTOL (nozzle: 1,8-2,2mm) after 5% thinning with thinner.

Suggested film thickness 100-200µm

Application temperature 5-35°C

Substrate temperature 5-35°C

Dew point The substrate temperature must be at least 3 °C higher than the dew point.

Relative humidity < 80%

Suggested thinners 1120-1131

The choice of suitable thinner depends on the application method, the temperature and the humidity conditions. For the suitable choice, please contact with the technical department of our company.

The above conditions must be followed both during the application process and throughout the drying.

It should not be applied when rain is expected (at least 24h). It is necessary to protect the coating from the moisture (>80%) and the rain for about 24 hours after the application. Moisture can cause white or/and sticky surface and also can affect drying and recoating time.

The surface where the product will be applied on must be clean and dry.

If you exceed the maximum recoat time, the surface should be mechanically treated before repainting.

Note:

When applicable, products primarily meant for use as primers may have slight color variations from batch to batch.

Like all epoxy paints (during external use), prolonged exposure to weather conditions provokes chalking and color alteration. This fact affects only the surface and not the anticorrosive-protective properties of the product.

If the color stability and the aesthetic result are important, recoating with polyurethane finish coat is required.

Storage

Up to 12 months in a dry and cool place (5-30°C) protected from direct solar radiation and adverse weather conditions, stored in the original unopened containers.

Safety

Please consult the Material Safety Data Sheet. Available upon request.

This Technical Data Sheet replaces and cancels every previously issued. The information, instructions, recommendations and specifications mentioned in this data sheet, represent the results and experience obtained from testing under controlled or specially adapted conditions. The accuracy and relevance of these results to the actual conditions, in which you apply the product, must be determined and depend only on the purchaser and/or applicator.