

Technical Data Primers and Ancillaries

Epimastic 5100

Surface Tolerant Epoxy Primer

Product Description

A high solids, high build, low VOC self-priming aluminium flaked anti-corrosive epoxy coating which can be applied to galvanized steel and old or new steel following the removal of loose rust and scale.

- Can be applied over most existing coatings systems including aged alkyd systems.
- Can be easily recoated if required.

Designed Use

- As a single coat maintenance system with suitable topcoat.
- As a chemically resistant finish for process equipment, pipe work etc.
- As a general maintenance coating for onshore and offshore installations.
- Suitable as surface tolerant primer for upto C5 Environment as per ISO12944 Part 2 along with suitable topcoats.

Physical Data

Volume Solids (Based on ASTM D2697)	: 82%+ 2%
Typical Dry Film Thickness	: 125 microns
Wet Film Thickness	: 152 microns
Theoretical Coverage	: 6.56 m ² /litre @ 125 microns DFT
VOC "As Supplied" (Based on ASTM D3960)	: 162 gms/ltr
Colour	: Natural Colour of Aluminium
Finish	: Semi-Gloss

Application Details

- **Airless Spray** : This is the recommended method of application: Maximum 5% Thinner may be added.
Tip Size: 0.48 - 0.58 mm (0.019 - 0.023 in)
Pressure: 110 - 160 kg/cm² (1600 - 2300 psi)
- **Conventional Spray** : This is also a suitable method of application. Maximum 20% Thinner may be added.
Tip Size: 1.80 - 2.20 mm (0.071 - 0.087 in)
Pressure: 2.75 - 3.45 kg/cm² (40 - 50 psi)
- **Brush or Roller** : May be used for difficult shapes or touch-up. However, additional coats may be required to achieve the recommended film thickness.

Drying time	Surface Temperature	Touch Dry	Hard Dry	Re coating Interval		Pot Life
				Minimum	Maximum	
	15°C	12 hours	24 hours	24 hours	Indefinite	8 hours
	25°C	6 hours	16 hours	16 hours	Indefinite	6 hours
	35°C	3 hours	12 hours	12 hours	Indefinite	4 hours
	45°C	2 hours	8 hours	8 hours	Indefinite	1½ hours

No. of Components	Two
Mixing Ratio	As per pack size
Application Conditions	Do not apply this product if the relative humidity exceeds 85% or if the substrate temperature is within 3°C of the dew point

Additional Information

Thinner/Cleaning solvent	: Solvalux 7-45
Storage Instruction	: Store in a cool shaded dry area
Flash Point	: Mixed 36°C
Packaging	: 5 litres and 20 litres
Shelf Life	: 24 months from the date of manufacture

Surface Preparation

- The life-span and performance of this coating is directly related to the degree of surface preparation.
- Remove all wax, oil and grease by solvent cleaning in accordance with the guidelines given by SSPC-SPI.
- Soluble salts, dirt and dust must be removed prior to coating. Dry brushing should be sufficient. A freshwater wash must follow to remove all soluble salts.
- Remove scale by chipping, needle gun or spot blasting. Any loose or flaking coatings should be taken back to a firm edge.
- Mechanically clean the surface using hand or power tools to a minimum standard of St 2 Swedish Standard SIS 05 59 00 or ISO 8501-1 : 1988 taking care to avoid polishing the surface.
- Where necessary remove weld spatter and round off all rough weld seams and sharp edges to a smooth surface.

Product Use Restrictions

- This product is designed as a primer cum finish.
- This product is not suitable for use in immersed conditions without a topcoat.
- Dry heat resistance up to 120°C.
- As common with all Epoxy products, this product also will tend to discolour and chalk on exposure to direct sunlight.
- May also be applied between 75 and 150 Microns DFT.
- Contact Representative for suggesting suitable paint system.

Safety Information And Precautions

Safety Precautions

- Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust masks and gloves. Use a barrier cream.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapour or spray.
- This product is flammable. Keep away from sources of ignition. Do not smoke. Take precautionary measures against static discharge. In case of fire blanket flames with foam, carbon dioxide or dry chemicals.
- Refer to MSDS for further information.

First-Aid

- Eyes : In the event of accidental splashes, flush eyes with water immediately and obtain medical advice.
- Skin : Wash skin thoroughly with soap and water or approved industrial cleaner.
- Do not use solvent or thinners.
- Inhalation: Remove to fresh air, loosen collar and keep patient rested.
- Ingestion : In case of accidental ingestion, do not induce vomiting. Obtain immediate medical attention.

Disclaimer

The information provided on this data sheet is not intended to be complete and is provided as general advice only. It is the responsibility of the user to ensure that the product is suitable for the purpose for which he wishes to use it. As we have no control over the treatment of the product, the standard of surface preparation of the substrate, or other factors affecting the use of this product, we are not responsible for its performance nor would we accept any liability whatsoever or howsoever arising from the use of this product unless specifically agreed to in writing by us. The information contained in this data sheet may be modified by us from time to time, and without notice, in the light of our experience and continuous product development.

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