

## PRODUCT SPECIFICATIONS

### Product Description

A two component, high build, self-priming surface tolerant epoxy coating pigmented with aluminium flakes.

### Design Feature

- A rapid curing, tough anti-corrosive maintenance primer for steel where blasting is impractical and only power or hand tool surface preparation is possible.
- Excellent wetting and adhesion to a variety of substrates and aged coatings.
- Outstanding anti-corrosive performance on both blasted and non-blasted steel.
- Withstands continuous dry heat up to 150°C and can be used for corrosion protection under thermal insulation of carbon steel and stainless steel.
- Ideal for use with wet abrasive blasting or ultra high pressure water blasting.

### Physical Characteristics

Recommended Application Data	Wet [µm]	Dry [µm]	m²/l
Theoretical Coverage	156	125	6.4

Volume Solids	:	80% (based on ASTM D2697)
Dry Film Thickness Range	:	75 µm to 200 µm
Flash Point	:	35 °C
Finish	:	Metallic, Semi-gloss
Colour Range	:	Aluminium
Standard Packing Size	:	5 Litres set (2.5 litres Base : 2.5 litres Hardener)
Mix Ratio (by volume)	:	1 Base : 1 Hardener

### Application Method

AIRLESS SPRAY	:	Tip Size	:	0.53 – 0.63 mm ( 21 – 25 thou )
Recommended method of application	:	Pressure	:	110 – 160 kg/cm² (1600 – 2300 psi)
CONVENTIONAL AIR SPRAY	:	Can be used after dilution to achieve good atomisation.		
BRUSH OR ROLLER	:	Can be used. However, additional coats may be required to achieve the recommended film thickness. Suitable for stripe coating, weld-seams, edges, corners, rivets, etc.		

### Drying & Curing Time

Substrate Temperature	Touch Dry	Hard Dry	Overcoating Interval		Pot Life
			Min.	Max.	
15 °C	4 hours	8 hours	8 hours	Indefinite	2 hours
25 °C	1.5 hours	4 hours	4 hours	Indefinite	1.5 hours
35 °C	1 hour	2.5 hours	2.5 hours	Indefinite	45 minutes

### Useful Information

THINNER	:	SOLVALUX 7-45 or 7-33 (Maximum 10% addition)
CLEANER	:	SOLVALUX 7-77
STORAGE	:	Store in a cool dry shaded area.
SHELF LIFE AT 25 °C	:	12 months minimum when stored as prescribed in the MSDS.

## Surface Preparation

The service life span and the service performance of EPIMASTIC 5100 are directly related to the degree of surface preparation.

### STEEL

- Remove all wax, oil and grease by solvent cleaning in accordance with the guidelines given by SSPC-SP1.
- Soluble salts, dirt and dust must be removed prior to coating. A freshwater wash must follow to remove all soluble salts.
- Remove scales by chipping, needle gun or spot blasting.
- All loose or flaking coatings should be removed back to a firm edge.
- Mechanically clean the surface using hand or power tools to a minimum standard of St 2 (ISO 8501-1:1988) or SSPC-SP2 taking care to avoid polishing the surface.
- Where necessary remove weld spatter and round off all rough weld seams and sharp edges to smooth surface.

To avoid condensation of moisture onto substrate prior to coating application, relative humidity should not exceed 85% and substrate temperature should be more than 3°C above Dew Point.

## Suitable Finish Coats

Luxathane 5075, Luxathane 5150HS, Luxathane 5000 HB, Epilux 4, Epimastic 5100, Luxol 5000, Epilux 82, Steelshield 1200, Steelshield 1100, Epimastic 3000HS, Epilux 58HS, Epilux 218

## Notes

- The coating specifications given above are typical. For specific recommendations to suit individual applications please refer to your Berger Paints representative.
- Common to all epoxies this product will experience yellowing and chalking on prolonged exposure to sunlight. However, this phenomenon is not detrimental to coating performance.
- Exposure to very low temperatures, high humidity or water ponding during and / or immediately after application may result in incomplete cure and / or discolouration that may compromise subsequent intercoat adhesion.
- Do not apply onto freshly applied alkyd or oleoresin types paint systems.

## Safety Precaution

- Avoid contact with eyes and skin. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use barrier cream.
- This product contains low flash point solvents, do not use in poorly ventilated areas especially in confined tank interiors.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe in vapour or spray mist.
- 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.

## First Aid

- Eyes** : In the event of accidental splashes, flush eyes with warm water immediately and seek medical advice.
- Skin** : Wash skin thoroughly with soap and water or approved industrial cleaner. Do Not Use solvents 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.

For further safety information, please refer to our **Material Safety Data Sheet (MSDS)**

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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