BERGER PRODUCT SPECIFICATIONS

EPIMASTIC 7100

Surface Tolerant Epoxy

PRODUCT DESCRIPTION

A two component, high solids, high build, self-priming surface tolerant epoxy coating.

DESIGN FEATURES

A tough maintenance primer for steel substrates in situations where blasting is impractical and only power or hand tool surface preparation is possible.
An anti-corrosive primer/finish coating for blasted steel substrates intended for immersion applications.
Excellent anti-corrosive performance with outstanding fresh and seawater resistance.
Able to cure under adverse conditions, underwater and at temperatures down to 5º C.
Excellent hardness and abrasion resistance.
An ideal, tar free replacement for coal tar epoxies.

PHYSICAL CHARACTERISTICS

Recommended Application Data	Wet [µm]	Dry [µm]	m^2/l
Theoretical Coverage	122	100	8.2

Volume solids	82% (based on ASTM D2697)
Dry Film Thickness Range	100 µm to 200 µm
Flash Point	28 °C
Finish	Semi-Gloss
Colour Range	Oyster Grey
Standard Packing Size	5 litres set (2.87 litres Base : 2.17 litres Hardener)
Mix Ratio (by volume)	1 Base : 1.3 Hardener

APPLICATION METHOD

AIRLESS SPRAY Recommended method of application	Tip Size	: 0.53 – 0.63 mm (21 – 25 thou)
	Pressure	: 110 –160 kg/cm² (1600 – 2300 psi)
CONVENTIONAL AIR SPRAY	May be used. May require additional dilution to achieve good atomisation.	
BRUSH OR ROLLER	May 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
			Minimum	Maximum	
15 °C	6 hours	12 hours	24 hours	Indefinite	4 hours
25 °C	3 hours	8 hours	8 hours	Indefinite	3 hours
35 °C	2 hours	6 hours	6 hours	Indefinite	2 hours

USEFUL INFORMATION

THINNER	:	SOLVALUX 7-45 (Maximum 5% addition)
CLEANER	:	SOLVALUX 7-77
STORAGE	:	Store in a cool dry shaded area.
SHELF LIFE AT 25 ºC	:	12 months minimum when stored as prescribed in the MSDS.

SURFACE PREPARATION

The service life span and the service performance of EPIMASTIC 7100 is 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 by dry brushing and freshwater washing. Remove scale by chipping, needle gun or spot blasting. Any loose or flaking coatings should be taken back to a firm edge.
- For atmospheric exposure applications, 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 necessaries remove weld spatter and round off all rough weld seams and sharp edges to smooth surface.
- For immersion applications, abrasive blast clean to a minimum surface preparation standard of Sa2½ (ISO 8501-1:1988) or SSPC-SP10, with an average surface profile of 75 – 100 microns. Apply Epimastic 7100 immediately after blasting to prevent oxidation and recontamination of the steel surface. In case of oxidation or recontamination, re-blast to the required standard.

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, Navilux 1500, Navilux 1300, Navilux 1100, Navilux 4900, Navilux 4100.
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. As such, for atmospheric exposure where gloss and colour is important, this product should be over coated with a suitable weather resistant finish coating. • 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 inter-coat adhesion.

SAFETY PRECAUTION

Avoid contact with eyes and skin. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use barrier cream.

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)**

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.