

PROTECTIVE & MARINE COATING



Berger Epimastic 5100

PRODUCT DESCRIPTION

- A self priming surface tolerant high build epoxy pigmented with aluminum flakes that provide a tough barrier coating for steel where blast cleaning is neither practical nor economical.

DESIGNED USE

- This 2-part epoxy product has a high build maintenance coating for non-blasted steel.
- Also suitable for process equipment and pipes in a medium aggressive environment and for external protection of storage tanks.

PHYSICAL DATA

VOLUME SOLIDS (based on ASTM D2697)	83% \pm 2%
TYPICAL DRY FILM THICKNESS	125 microns
WET FILM THICKNESS	150 microns
THEORETICAL COVERAGE	6.0 - 6.7 sq. m/litre (238-266 sq ft per 3.7L) @ 125 microns DFT
COLOUR	Aluminium color
FINISH	Metallic Semi Gloss

APPLICATION DETAILS

METHOD OF APPLICATION :

AIRLESS SPRAY

This is the recommended method of application:
Maximum 5% Thinner may be added (185 mls)
Tip Size: 0.48 - 0.58 mm (0.019- 0.023 in)
Pressure: 110 - 160 kg/cm² (1600 - 2300 psi)

BRUSH OR ROLLER

May be used. However additional coats may be required to achieve the recommended film thickness. 5% thinner may be added.

DRYING TIME:

Surface Temperature	Touch Dry	Hard Dry	Re-coating Interval		Pot Life
			Minimum	Maximum	
15°C	12 Hrs	24 Hrs	24 Hrs	Indefinite	8 Hrs
25°C	6 Hrs	16 Hrs	16 Hrs	Indefinite	6 Hrs
35°C	3 Hrs	12 Hrs	12 Hrs	Indefinite	4 Hrs
45°C	2.5 Hrs	8 Hrs	8 Hrs	Indefinite	2 Hrs

NO. OF COMPONENTS	Two
Mixing Ratio	1 part Base to 1 part Hardener (by volume)
Application Conditions	Do not apply this product if the Relative Humidity exceeds 95% 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 41°C
Packaging	1 Gallon (3.7L) and 5 Gallons (18.9L)
Shelf Life	12 months from the date of Manufacture

PROTECTIVE & MARINE COATING



Berger Epimastic 5100

BERGER EPIMASTIC 5100

SURFACE PREPARATION

- The performance of the coating is directly proportional to the degree of surface preparation.
- Remove all wax, Oil and grease by solvent cleaning in accordance with guidelines given by SSPC-SP1.
- Soluble salts, dirt 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 coating should be taken back to a firm edge.
- Mechanically clean the surface using hand or power tools to a minimum standard of ISO 8501-1 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 INSTRUCTIONS

- Part A and B must be intermixed thoroughly before use. Thin if necessary, as recommended. Once mixed, allow to stand for 5-10 mins, this allows aeration to settle. May also be applied between 100 and 150 Microns DFT.
- For use at elevated temperature, remove existing coating prior to application of Berger EPIMASTIC 5100.
- Do not apply over freshly applied alkyds or oleoresinous paint system.
- This product is not suitable for use in immersed condition.

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.

For specific recommendations, contact your Berger Technical Service Representative or Technical Service Department.
Jan. 2025 Version 3