

EPI LUX 5 FD

PROTECTIVE COATING

Quick drying coal tar epoxy

PRODUCT DESCRIPTION

A high-build epoxy polyamide combined with coal tar that has:

- Compatibility with cathodic protection.
- Outstanding resistance to fresh water and salt water.
- Excellent resistance to chemically polluted water (e.g. sewage).
- BS 5493 reference. Meets performance of KF 3B.

DESIGNED USE

- Protection of steel/concrete pipelines, harbour and shore installations.
- Anti-corrosive coating for submerged or semi-submerged areas e.g. piling, jetties, dock gates.
- Internal tank lining for crude oil storage tanks.

PHYSICAL DATA

Properties	Value
Volume solids (Based on ASTM D 2697)	68 % + 2 %
DFT range	100-150 microns
Typical dry film thickness	150 microns
Equivalent wet film thickness	220 microns
Theoretical spreading rate	4.5 m ² /litre @ 150 microns dft
Colour	Black & Brown
VOC "as supplied" (Based on US-EPA 24)	240 gms/ltr
Gloss level	Semi-gloss

METHOD OF APPLICATION

Airless Spray:

This is the recommended method of application. The Thinner percentage may be varying depends upon the line and atmospheric conditions.

Tip Size: 0.48 - 0.58 mm (0.019 - 0.023 in)

Pressure: 125 - 160 kg/cm² (1800 – 2300 psi)

Conventional Spray:

This is also a suitable method of application. The Thinner percentage may be varying depends upon the line and atmospheric conditions.

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 intricate shapes or small area or touch-up. However, additional coats may be required to achieve the recommended film thickness. This method of application is recommended for stripe coating welds, edges, rivets etc.

Drying Time

Surface Temperature	Touch Dry	Hard Dry	Re coating Interval		Pot Life
			Min.	Max.	
20°C	3 Hrs	12 Hrs	12 Hrs	7 Days	2 Hrs
30°C	1 ½ Hrs	6 Hrs	6 Hrs	7 Days	1 Hour
40°C	45 Min	4 Hrs	3 Hrs	7 Days	45 Min

To obtain the drying time stated, it is important to maintain sufficient ventilation during application, drying and curing. If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.

Properties	Value
No. of components	Two

Properties	Value
Mixing ratio	3 parts Base to 2 part Hardener (by volume): Mix until to get homogeneous mix. Allow mixed paint to rest for several minutes before use to allow air bubbles to escape.
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

Properties	Value
Thinner / Cleaning solvent	Solvalux 7-45 / Berger Tool cleaner
Storage instruction	Store in dry, shaded conditions away from sources of heat and ignition. Containers must be kept tightly closed and upright position.
Flash point	Mixed 36°C
Shelf life @ 23°C	For Base & Hardener 12 months from the date of manufacture

Packing

Unit Size	Part A			Part B		
	Vol.	Pack	Weight (typical)	Vol.	Pack	Weight (typical)
20lt	12 lt	20 lt	18.6 kg	8 lt	10 lt	9.7

SURFACE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Carbon steel: Abrasive blast clean to a minimum of Sa2½ (ISO 8501-1:2007) or SSPC-SP10. Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner. A surface profile of 35-50 microns is recommended. May be applied to surfaces prepared to Sa2 (ISO 8501-1:2007) or SSPC-SP6. Epilux 5 can be applied either directly to steel or to a suitably primed surface (e.g. EPI LUX or ZINCANODE Primers).

Concrete: Should be at least 28 days old or have a moisture content of less than 5% before proceeding with epoxy primer application. Laitance and deposits on new concrete surface are preferably removed by light grit/ shot blasting, mechanical scarifying or grinding to achieve an open textured surface.

PRODUCT USE RESTRICTIONS

- Epilux 5 will have delayed curing if temperature falls below 10°C.
- Not suitable as a coating for the internal lining of potable water tanks.
- This product will withstand wet heat up to 60°C.
- As common with all Epoxy products, this product also will tend to discolor and chalk on exposure to direct sunlight.

SYSTEMS COMPATIBILITY

- The following Primer are recommended : Epilux and Epimastic series primers.
- For alternative system, consult Asian Paints Berger representative.

SAFETY PRECAUTIONS

- This product is based on a pitch epoxy binder.
- 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 vapor 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 SDS 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.