

EPI LUX 155 SF

PROTECTIVE COATING

Solvent Free Epoxy Coating

PRODUCT DESCRIPTION

A high-build solventless, non-toxic, modified amine cured epoxy coating of excellent chemical resistance. This product is formulated using the quality inert pigments ideal for lining of metal and concrete tanks for potable water and fat-free food stuffs.

- Excellent resistance to fresh and salt water, resistant to solvents, chemicals and crude oil.
- High film build in one coat.
- Low water permeability and non-toxic.

DESIGNED USE

- High-build epoxy for the protection of steel and concrete.
- Suitable for application to pipelines, harbor and shore installation, internal tank lining, chemical plants.
- Suitable as topcoat for upto C5 Environment as per ISO12944 Part 2.
- Approval / Testing of AWQC Australia, AWWA, Singapore TUV, WRAS UK available.

PHYSICAL DATA

Properties	Value
Volume solids (Based on ASTM D 2697)	99 % + 1 %
DFT range	150-300 microns
Typical dry film thickness	200 microns
Equivalent wet film thickness	210 microns
Theoretical spreading rate	4.75 m ² /litre @ 200 microns DFT
Colour	White & selected shades
VOC "as supplied" (Based on US-EPA 24)	55 gms/ltr
Finish/Sheen	Glossy

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. Remove filters from the gun and pump before application.

Tip Size: 0.68 - 0.99 mm (0.027 - 0.039 in)

Pressure: 280 - 320 kg/cm² (4000 – 4500 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	8 Hrs	16 Hrs	16 Hrs	7 Days	1 Hour
30°C	6 Hrs	12 Hrs	12 Hrs	7 Days	20 Min
40°C	3½ Hrs	8 Hrs	8 Hrs	7 Days	10 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.

Above mentioned pot-life was measured under controlled condition. However for a 5 liter/ 10 liter mix, the heat developed by exothermic reaction between base & hardener is intense and it will shorten the practical pot-life substantially.

Properties	Value
No. of components	Two

Properties	Value
Mixing ratio	4 parts Base to 1 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. No induction time is required. Spraying should commence as soon as base and hardener are properly mixed.
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. Mix base and hardener, only when applicator is ready to spray. Do not mix more than 10 litres of Epilux 155 SF in the same container. The very fast chemical reaction will shorten the pot-life.

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 27°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)
20 Lt	16 lt	20 lt	27.7 kg	4 lt	5lt	4 Kg

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. This product should be applied to a surface that has been blast cleaned and suitably primed (e.g. with EPILUX 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.

EPILUX 155 SF may be applied directly to the clean sound concrete provided the first coat is thinned by up to 15% Solvalux 7-45.

PRODUCT USE RESTRICTIONS

- Exposure to very low temperatures, high humidity or water ponding during and/ or immediately after application may result in incomplete cure and/ or discolorations that may compromise subsequent inter coat adhesion.
- Being thick consistency material airless pump of ratio 60:1 or greater is suggested with filters removed.
- Though product can be applied in humidity range of 25-80%. Ideal level of humidity is 40-50% and should be maintained for 8 hours before and after application. We strongly recommend the use of dehumidifier.
- Dry heat resistant 120°C (Continuous) 160°C (Intermittent).
- Do not apply beyond 300 microns in single coat.
- As common with all Epoxy products, this product also will tend to chalk on exposure to direct sunlight.

SYSTEMS COMPATIBILITY

- The following coat recommended: Epilux 155 SF.
- The following Top coat are recommended: Luxathane 5160 and Robbiathane.
- The use of a dehumidification system and/ or the use of a suitable blast/ holding primer such as Epilux 610 is recommended to prevent oxidation of the blasted steel surface. In case of oxidation/recontamination, re-blast to the required standard.
- For alternative system, consult Asian Paint Berger representative.

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 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.