EPILUX 850SF

Solvent Free High Build Epoxy Phenolic

PRODUCT DESCRIPTION

A two component, solvent free chemically resistance high build epoxy phenolic tank lining product.

DESIGN FEATURES

An internal tank lining suitable for use with a wide range of chemicals. Approach your Berger Paints representative for specific cargo resistance suitability and advice.
Provides corrosion protection of internal steel storage tanks with excellent abrasion resistance.
Excellent chemical resistance to crude oil, gasoline blend, aromatic and aliphatic solvents.
Outstanding adhesion to blasted steel.
Good anti-corrosive performance properties.

PHYSICAL CHARACTERISTICS

Recommended Application Data	Wet [µm]	Dry [µm]	m^2/l
Theoretical Coverage	300	300	3.3

Volume solids	100 % (based on ASTM D2697)
Dry Film Thickness Range	300 µm to 500 µm
Theoretical Coverage	2 m^2 per coat per Litre at 500 microns DFT
Flash Point	>50°C
Finish	Semi-Gloss
Colour Range	White and Light Colours (Self Standard)
Standard Packing Size	20 Litres set (13.33 Ltrs Base : 6.67 Ltrs Hardener) 5 Litres set (3.33 Ltrs Base : 1.67 ltrs Hardener)
Mix Ratio (by volume)	2 Base : 1 Hardener

APPLICATION METHOD

AIRLESS SPRAY Recommended method of application	Tip Size	: 0.63 – 0.89 mm (25 - 35 thou)
	Pressure	: 110 –160 kg/cm^2 (1600 – 2300 psi)
BRUSH OR ROLLER	May be used for stripe coating, weld-seams, edges, corners, rivets, etc. However, additional coats may be required to achieve the recommended film thickness.	

DRYING & CURING TIME

Substrate Temperature	Touch Dry	Hard Dry	Overcoating Interval		Pot Life
			Minimum	Maximum	
15 °C	10 hours	36 hours	36 hours	15 days	90 minutes
25 °C	8 hours	24 hours	24 hours	7 days	45 minutes
35 °C	6 hours	16 hours	16 hours	5 days	30 minutes

USEFUL INFORMATION

THINNER	:	**NOT REQUIRED**
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 EPILUX 850SF is directly related to the degree of surface preparation.

STEEL

- EPILUX 850SF should be applied to a surface that has been blast cleaned. It may be applied directly to blast cleaned steel or over a suitable primer e.g. EPILUX 610.
- Remove all wax, oil and grease by solvent cleaning in accordance with the guidelines given by SSPC-SP1. Where necessaries remove weld spatter and round off all rough weld seams and sharp edges to a smooth surface.
- Abrasive blast clean to a minimum standard of Sa2½ (ISO 8501-1:1988) or SSPC-SP10. An average surface profile of 75 – 100 microns is required.
- Ensure that all surface defects detected after blast cleaning is ground, filled or treated in a suitable manner.
- After blasting, remove dust from the surface. Ensure that the surface to be coated is clean, dry and free from any contaminants.
- Apply Epilux 850SF immediately after blasting to prevent oxidation and recontamination of the steel surface. 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.

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 UNDERCOATS	Epimastic 3000HS, Epilux 610

NOTES

- The coating specifications given above are typical. For specific recommendations to suit individual applications, please refer to your Berger Paints representative.
- Please consult your Berger Paint Representative for recommendations on suitability for the containment of specific cargo / cargoes.
- Common to all epoxies this product will experience chalking on prolonged exposure to sunlight. However, this phenomena 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.

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.