BERGER PAINTS PROTECTIVE COATINGS

EPILUX 816

Epoxy Phenolic Novalac

PRODUCT DESCRIPTION

A two component, high solids, high build, chemical resistant solvent based epoxy phenolic tank lining.

DESIGNED USE

- 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 to internal steel storage tanks.
- Excellent resistance to chemicals such as crude oil, gasoline blend, aromatic and aliphatic solvents and ballast water.
- Outstanding adhesion to blasted steel.
- Good anti-corrosive performance properties.
- Suitable as topcoat for upto C5 Environment as per ISO12944 Part 2

PHYSICAL DATA

VOLUME SOLIDS (Based on ASTM D2697)	85 % ± 2 %
TYPICAL DRY FILM THICKNESS	100 microns
WET FILM THICKNESS	120 microns
THEORETICAL COVERAGE	8.5 m^2/liter @ 100 microns DFT
VOC "As Supplied" (Based on ASTM D3960)	140 gms/liter
COLOUR	Selected Shades
FINISH	Semi-Gloss

APPLICATION DETAILS

METHOD OF APPLICATION :

AIRLESS SPRAY	This is the recommended method of application: Maximum 5% Thinner may be added. Tip Size: 0.53 - 0.58 mm (0.021 - 0.023 in) Pressure: 110 - 160 kg/cm^2 (1600 – 2300 psi)
BRUSH OR ROLLER	May be used for difficult shapes or touch-up. However, additional coats may be required to achieve the recommended film thickness.

DRYING TIME:

Surface Temperature	Touch Dry	Hard Dry	Over coating Interval		Pot Life
			Minimum	Maximum	
15°C	6 Hrs	20 Hrs	20 Hrs	21 Days	3 Hrs
25°C	4 Hrs	8 Hrs	8 Hrs	21 Days	2 Hrs
35°C	2 Hrs	6 Hrs	6 Hrs	14 Days	1 Hr
45°C	1 Hr	5 Hrs	6 Hrs	14 Days	½ Hr

NO. OF COMPONENTS	Two
Mixing Ratio	As per pack size
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

Thinner / Cleaning solvent	Solvalux 7-45
Storage Instruction	Store in a cool dry shaded area
Flash Point	Mixed 30°C
Packaging	5 liters & 20 liters
Shelf Life	12 months from the date of manufacture.

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SURFACE PREPARATION

The service life span and the service performance of EPILUX 816 is directly related to the degree of surface preparation.

STEEL

- EPILUX 816 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 Primers
- 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 Sa 2½ Swedish Standard SIS 05 59 00 or ISO 8501-1 : 1988 or SSPC-SP10. An average surface profile of 75 – 100 microns 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 816 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 Primers is recommended to prevent oxidation of the blasted steel surface. In case of oxidation/ recontamination, re-blast to the required standard.

TYPICAL COATING SYSTEMS

Substrate Surface	Priming	2nd Coat	3rd Coat
Steel, Abrasive Blasted – Sa 2½	Epilux 610/ Epilux 78	Epilux 816	Epilux 816
Steel, Abrasive Blasted – Sa 2½	Epilux 816	Epilux 816	--

PRODUCT USE RESTRICTIONS

- 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 or discolouration on prolonged exposure to sunlight. However, this phenomenon 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 discolorations that may compromise subsequent inter coat adhesion.
- May also be applied between 100 and 150 microns DFT.
- Contact Berger Representative for suggesting suitable paint system

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 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

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