BERGER PROTECTON
PROTECTIVE COATINGS DIVISION

Epilux 9 HB Phenolic Coating

Epoxy Phenolic Coating

Issue Date : July 2025

Product Description

A High Performance High Build Epoxy Phenolic Tank Liner for sustained immersion in Hydrocarbon Cargoes at elevated temperatures along with its excellent chemical, water and solvent resistance property.

Usage Areas

Recommended for use as a tank interior coating for both Mild Steel and Concrete in Refineries, Petrochemicals, Heavy Chemical Industries. This product works under insulation services as well.

Product Data

Composition	Epoxy Phenolic Resin suitably pigmented and cured with modified Amine Harderner.
Volume Solids	70±2%
VOC	250 gms/ltr
Mixing Ratio	Base : Catalyst - 10 : 1 by volume
Application Method	Airless spray recommended for uniform and higher film build (Brush for touch up)
Recommended DFT	75 - 100 microns per coat
Recommended WFT	107 - 143 µ per coat
Theoretical Spreading Rate	7.0 - 9.3 m^2/ltr
Colour	Grey, White
Finish	Smooth with Egg Shell Gloss

Practical Coverage : Dependent on-site condition and transfer losses due to substrate design, profile, wind, heights, application method, painter's skill etc.

Pot Life

10°C	15°C	25°C	40°C
5 hrs	6 hrs	3 hrs	1.5 hrs

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Typical Coating Systems

Systems compatibility can be provided on request to the Technical Service Team

Coats	Generic Systems	Compatible Products
Primer	Epoxy Primer	**For Steel :** Epilux FRX AC Coating / Epilux 13 HB / Zinc Anode 304 **For Concrete :** Epilux 9 HB Phenolic Coating (thin coat)
Mid Coat	Epoxy Tank Lining	Epilux 9 HB Phenolic Coating
Top Coat	Epoxy Tank Lining	Epilux 9 HB Phenolic Coating

Pack size

	UOM	Part A	Part B	Total
Volume	Lt/Kg	10 ltr	1 ltr	11 ltr

Storage

The paints must be in its sealed original containers and be kept under cover in a dry place with ambient conditions inside closed room until use. The curing agent is sensitive to moisture and hence relative humidity within the room should be maintained preferably at ≤55%. Stacking should not be more than 3 drums/ cartons one above other. DO NOT expose to direct rain/ sunlight. Any deviation to the defined storage condition shall have a negative effect on the shelf life.

Shelf life

Up to 12 months as long as the sealed original containers are kept under cover in a dry place under normal temperature conditions until use.

Note :

1. Storage life @23°C will be extended up to 24 months. Storage at elevated temperatures may reduce shelf life; and hence never exceed maximum room temperature of 40°C. Storage life, thereafter, subject to re-inspection; consult tech-service.
2. It may be noted that higher volume solid material will tend to soft settling on long term storage, and it can made to a normal homogeneous consistency by use of a slow speed 200-400 rpm power stirrer particularly in the PART A (BASE) container; and this soft settling is not considered as a failure of keeping properties.

Flash Point

Part A	Part B	Mixed Paint
27°C	27°C	27°C

Health & Safety

Please refer to the separate Safety Data Sheet available with detailed information.

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APPLICATION GUIDELINE

Substrate	Steel, Concrete	
Surface preparation	**Steel :** Remove grease, oil and other contaminants as per SSPC SP1. Abrasive blast clean to a minimum SSPC SP 10 with a surface profile of 55 to 80 microns. The surface should be clean and dry before application of the primer coat. **Concrete : New Concrete :** Ensure that the concrete is cured for a minimum of three months. The surface is to be made rough and free from laitance and other contaminants by sand sweeping. **Old Concrete :** Remove all salt deposits from the surface by water jet washing. Light sand blast the surface to remove all loosely bound coatings and roughening up of firmly adhering coatings to ensure anchorage with recommended system. Ensure all dust/other particles are fully removed by suction or air blast and the surface is fully clean and dry before application of the recommended Primer	
Atmospheric Condition	Ventilation	Suitable air engineering systems, which will ensure reduction of air contaminants and thatto further help regulate the temperature and humidity of the working environment.
	Dew Point	Ensure surface temperature to be more than 3°C over the dew point temperature.
	Humidity	Do not apply when relative humidity rises above 85%.
Mixing	Stir the base thoroughly and then mix base to a homogenous mixture and then add recommended part of catalyst to uniform consistency. NOTE : DO NOT ADD THINNER beyond recommendation as it will reduce mixed VS calling for revised WFT calculations as well as challenges on flow properties.	
Thinner	Thinner 844	

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Application

Allow the mixture to mature for 15 minutes and stir again before use and during application.

Brush : Add upto 5% Thinner 844 during application.

Airless Spray : Apply preferably without thinning. However, if required, add upto 5% Thinner 844. Use any standard equipment having pump ratio 55 : 1.

Tip Size : 0.43 - 0.48 mm. **Tip Pressure :** 110 - 160 Kg/Sq cm.

Work Stoppage

Ensure to use the mixed paint within pot life as there are no methods to increase working pot life. Keep the working tools and tips free of drying and clogging. Always use fresh material and never add-up to previous mixed paints.

Clean Up

Clean all equipment immediately after use with thinner 844. It is good working practices to flush or clean all the spray equipment periodically.All the surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations.

Drying Time

Temperature	Touch Dry	Handle Dry	Hard Dry
10°C	8 hrs	18 hrs	24 hrs
23°C	6 hrs	16 hrs	20 hrs
30°C	3 hrs	8 hrs	12 hrs
40°C	2 hrs	5 hrs	8 hrs

Over Coating Intervals

	@23°C	@30°C
MIN	16 hrs	5 hrs
MAX	21 days	7 days

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Curing Time	7 days NOTE : Drying and Curing times are determined under controlled temperatures and at relative humidity below 85%, for the NDFT of the product.
Inspection	Refer SSPC PA2 guidelines for measurement of DFT. Do not conduct any destructive test like peel off/ pull off & high voltage Holiday test unless and otherwise mandatory in the specification. Consult Technical Service team for preparation of QAP (Quality Assurance plan).
Repair Methodology	Clean off loose paints, debris, contaminants and ensure spot repair with available tools as practiced in hand/ power tool cleaning using wire brush/buffing, emery/feathering to smoothen the edges of impaired areas. Use appropriate touch up primer followed by recommended coating system, allowing due over coating interval time to area of 2-3 inches in excess of the spot repaired portion.
Product Characteristics	• Epilux 9 HB Phenolic Coating offers very good chemical resistance to acids in both splash/spillage and immersion conditions. • It shows excellent resistance to alkalis whether exposed to splashes or full immersion. • Solvent resistance is excellent under both splash and immersion exposures. • It has excellent resistance to salt in splash/spillage and immersion environments. • Water resistance is rated excellent in both splash/spillage and immersion situations. • Abrasion resistance is very good in both splash/spillage and immersion conditions.
Disclaimer	The information contained within this Data Sheet is based on information believed to be reliable at the time of its preparation. The Company will not be liable for loss or damage howsoever caused including liability for negligence, which may be suffered by the user of the data contained herein. It is the users' responsibility to conduct all necessary tests to confirm the suitability of any product or system for their intended use. No guarantee of results is implied since conditions of use are beyond our control.