BERGER PROTECTON
PROTECTIVE COATINGS DIVISION

Epilux STL Coating

Two Pack Epoxy, cured with Amine Adduct

Issue Date : May 2025

Product Description

A high performance solventless coating suitable for sustained immersion in Petroleum & Aromatic Hydrocarbon solvents. Epilux STL possesses superb chemical resistance and can withstand both potable and saline water.

Usage Areas

It can be used on the interior of both steel and concrete tanks in refineries, fertilizers, chemical, power plants and other plants for storing various cargoes. The product is also approved for potable water.

Product Data

Composition	Catalysed Epoxy Resin suitably pigmented
Volume Solids	100 %
VOC	17 gms/ltr
Mixing Ratio	Base : Catalyst - 2:1 by volume
Application Method	: Airless Spray, Brush and roller for small areas only
Recommended DFT	200 - 500 microns per coat
Recommended WFT	204 - 510 µ per coat
Theoretical Spreading Rate	2.0 - 4.9 m^2/ltr
Colour	White & Grey (arbitrary)
Finish	Glossy

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
1 hr	45 min	30 min	20 min

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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	Epilux 13 HB Primer
Mid Coat	Epoxy Tank lining	Epilux STL Coating
Top Coat	Epoxy Tank lining	Epilux STL Coating

Pack size

	UOM	Part A	Part B	Total
Volume	Lt/Kg	20 ltr	10 ltr	30 ltr

Storage

DO NOT expose to direct rain/ sunlight. Note : Storage life @23°C will be extended up to 24 months. Storage at elevated temperatures may reduce shelf life; and never exceed maximum room temperature of 40°C. Thereafter, subject to reinspection; consult tech-service.

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
100°C	100°C	100°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** : Round off all rough welds, sharp edges and remove weld spatter. Rinse surface thoroughly with clean water to remove acids or alkali contaminants as well as to remove grease, oil and other contaminants in accordance with SSPC SP1. Abrasive blast to standard SSPC SP5 to a surface profile of 50 – 75 microns. Remove all dust by brushing or vacuum cleaning. **Concrete :** Remove all laitance, from release, grease and mould. Brush off blast with ilmenite or garnet as per SSPC SP13. Remove all dust by vacuum cleaning. Fill any large exposed voids.	
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

Stir the contents of each can thoroughly with broad flat stirrer slow speed mechanical stirrer. Mix the contents of both packs together throughly for at least 3 minutes. Ensure the clean-up solvent is available before commencing application. Use mixed material immediately after mixing.

Brush / Roller : Suitable for small area only. Brushing is ideally used for weld joints and edges as a stripe coat.

Airless Spray : Plural Component Airless Units : Units capable of 2:1 volume metering and heating such as binks, graco and others using a 60:1 pump ration with a fluid tip of 21-26 thou (0.53-0.66 mm) 3 ¼ Twist tip or adjustable tip (Titan) with an air supply of 690 – 830 kPa (100-120 p.s.i.) and a line size of 12 mm ID.

Pre-mix Airless Application : Standard airless spray equipment such as Graco, Binks or other using a 60:1 pump ratio with a fluid tiop of 21 – 26 thou (0.53 – 0.66 mm) or adjustable tip and an air supply of 690 – 830 kPa (100 – 120 p.s.i) and a line size of 12 mm ID. Apply material immediately after mixing and clean equipment immediately after use.

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	5 hrs	16 hrs	20 hrs
23°C	4 hrs	12 hrs	18 hrs
30°C	2 hrs	10 hrs	12 hrs
40°C	1.5 hrs	5 hrs	8 hrs

Over Coating Intervals

	@23°C	@30°C
MIN	12 hrs	10 hrs
MAX	5 weeks	2 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 STL Coating offers good resistance to weak mineral acids and mineral & vegetable oils under immersion conditions. • It offers very good resistance to aliphatic and aromatic hydrocarbon exposure under immersion conditions. • It exhibits excellent resistance to immersion in concentrated alkalis, salt solutions (up to 50°C), and water. • Epilux STL Coating offers continuous temperature resistance up to 120°C. • It ensures water impermeability even at 50°C. • Epilux STL Coating offers moderate flexibility with excellent abrasion resistance for durable performance.
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.