



# Epilux SCR Lining

## Two Pack, Chemical Resistant Tank Liner

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### Product Description

A high solid, epoxy novolac based two component polycyclamine cured tank lining system suitable for immersion in acrylic acid, carboxylic acid and para toluene sulfonic acid (solid/solution state), including; crude oil up to 100°C (200°F), refined oil products (including unleaded gasoline blends and solvents) and biofuels.

### Usage Areas

Epilux SCR Lining has strong chemical resistant properties to provide protection as a lining for mild steel or concrete storage tanks, vessels, and pipes that are subjected to immersion in a range of chemicals.

### Product Data

Composition	Modified Novolac epoxy with suitable Polycyclamine Hardener
Volume Solids	100%
VOC	40 gms/ltr
Mixing Ratio	Base : Catalyst :: 2:1 (V/V)
Application Method	Plural Component Spray, Airless Spray
Recommended DFT	500-1000 µ per coat
Theoretical Spreading Rate	1.0-2.0 m <sup>2</sup> /ltr /coat
Colour	Limited Shades
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	40 mins	30 mins	20 mins





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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	Epilux SCR Lining, Epilux PSC Tie Coat
	Mid Coat	-	-
	Top Coat	Epoxy	Epilux SCR Lining

Pack size		UOM	Part A	Part B	Total
	Volume	Lt/Kg	20 ltr	10 ltr	30 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 $\leq 55\%$ . 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.
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Shelf life	<p>Up to 9 months as long as the sealed original containers are kept under cover in a dry place under normal temperature conditions until use.</p> <p>Note :</p> <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> </ol>
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Flash Point	Part A	Part B	Mixed Paint
	22°C	22°C	22°C

Health & Safety	Please refer to the separate Safety Data Sheet available with detailed information.
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### APPLICATION GUIDELINE

<b>Substrate</b>	Carbon Steel & Concrete.	
<b>Surface preparation</b>	<p><b>Steel :</b> Remove grease, oil and other contaminants preferably by using Solvent as per SSPC SP1. Abrasive blasting is required as per SSPC SP 10 for application of the primer with a minimum profile of 100-120 microns. Thoroughly dust down all surfaces. The surface should be clean and dry before application of appropriate primer coat and the subsequent coats. Water jet washing is recommended before application of finish coat in highly contaminated conditions. Abrade the primed surface with emery grade 200 if the overcoating interval has exceeded the permissible limits.</p> <p><b>Concrete :</b> Ensure that the concrete is fully cured and with a moisture content less than 5%. The surface is to be made rough and free from laitance, loosely held coatings &amp; other contaminants by sand sweeping. Remove all salt deposits from the surface by water jet washing. Light sand Blast if required. Surface preparation guideline is as per SSPC SP13.</p>	
<b>Atmospheric Condition</b>	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%.
<b>Mixing</b>	<p>Stir the base thoroughly and then mix base to a homogenous liquid and then add recommended part of catalyst to uniform consistency. Allow the mixture to mature for 15 minutes and stir again before and during application.</p> <p>NOTE : Stir the base thoroughly and then mix base to a homogenous liquid and then add recommended part of catalyst to uniform consistency. Allow the mixture to mature for 15 minutes and stir again before and during application.</p>	
<b>Thinner</b>	-	





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<b>Application</b>	<p>Stir the base thoroughly and then mix base and catalyst in the recommended proportion to uniform consistency.</p> <p><b>Brush :</b> Apply preferably without thinning.</p> <p><b>Conventional Spray :</b> Not recommended.</p> <p><b>Airless Spray :</b> Apply preferably without thinning. For airless spray application, best results will be achieved when each component of the product is heated prior to application to 35-37°C.</p> <p><b>Plural Component Airless Spray :</b> Best results will be achieved when the product is heated prior to application; Part A (Resin) to a maximum of 60°C and Part B (Hardener) to a maximum of 40°C.</p>			
<b>Work Stoppage</b>	<p>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.</p>			
<b>Drying Time</b>	<b>Temperature</b>	<b>Touch dry</b>	<b>Handle dry</b>	<b>Hard dry</b>
	10°C	15 hrs	20 hrs	24 hrs
	23°C	6 hrs	10 hrs	14 hrs
	30°C	3 hrs	6 hrs	12 hrs
	40°C	2 hr	5 hrs	8 hrs
<b>Over Coating Intervals</b>		@23°C		@30°C
	MIN	14 hrs		12 hrs
	MAX	7 days		5 days





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<b>Curing Time</b>	<p>7 days</p> <p>NOTE : Drying and Curing times are determined under controlled temperatures and at relative humidity below 85%, for the NDFT of the product.</p>
<b>Inspection</b>	<p>Refer SSPC PA2 guidelines for measurement of DFT.</p> <p>Do not conduct any destructive test like peel off/ pull off &amp; high voltage Holiday test unless and otherwise mandatory in the specification.</p> <p>Consult Technical Service team for preparation of QAP (Quality Assurance plan).</p>
<b>Repair Methodology</b>	<p>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.</p>
<b>Product Characteristics</b>	<ul style="list-style-type: none"> <li>• Epilux SCR Lining exhibits excellent resistance to Salt and Water when exposed to splashes, spills, and mild fumes.</li> <li>• Excellent resistance to Alkalis and Solvents when exposed to mild fumes, and very good for splashes, spills.</li> <li>• Very good resistance to Acids when exposed to splashes, spills, and mild fumes.</li> <li>• It has excellent weatherability, flexibility and abrasion resistance.</li> <li>• The temperature resistance is 100°C for continuous use and 120°C for intermittent use.</li> </ul>
<b>Disclaimer</b>	<p>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.</p>