



Epilux CUI Coating

Two Pack High Build Epoxy Novalac

Issue Date : Feb 2025

Product Description

A high performance high build Epoxy Novalac coating for high temperature wet/dry insulation service in petrochemical and pharmaceutical installations for its excellent chemical, water and solvent resistance.

Usage Areas

An ideal coating for project and maintenance requirements with self priming property specifically designed for corrosion under insulation as required in Refineries, Petrochemicals, Heavy Chemicals and other plants.

Product Data

Composition	Epoxy Novalac suitably pigmented cured with modified amine hardener
Volume Solids	70± 2%
VOC	258 gms/ltr
Mixing Ratio	Base : Catalyst :: 6.4:1 (V/V)
Application Method	Airless Spray/Brush for touch up
Recommended DFT	100-125 µ per coat
Recommended WFT	143-179 µ per coat
Theoretical Spreading Rate	5.4-6.8 m ² /ltr /coat
Colour	Aluminium, Lt Grey, White & assorted colours
Gloss	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
3 hrs	2 hrs	1 hrs	40 min





Epilux CUI Coating

Two Pack High Build Epoxy Novalac

Typical Coating Systems	Systems compatibility can be provided on request to the Technical Service Team		
	Coats	Generic Systems	Compatible Products
	Primer	CUI Coating	Epilux CUI Coating
	Mid Coat	CUI Coating	Epilux CUI Coating
	Top Coat	CUI Coating	Epilux CUI Coating

Pack size		UOM	Part A	Part B	Total
	Volume	Lt/Kg	17.3 ltr	2.7 ltr	20 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.
---------	--

Shelf life	<p>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.</p> <p>Note :</p> <ol style="list-style-type: none"> 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. 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
	25°C	25°C	25°C

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





Epilux CUI Coating

Two Pack High Build Epoxy Novalac

APPLICATION GUIDELINE

Substrate	Steel.	
Surface preparation	<p>Steel : Remove grease, oil and other contaminants preferably by using a degreasing solvent. Abrasive blast clean to a minimum SSPC SP 10 with a surface profile not exceeding 70 microns. The surface should be clean and dry before application of the primer coat. In cases where abarasive blasting is not feasible in maintenance then prepare the surface to SSPC SP 11 using power tool cleaning after thouroughly water jet washing and drying with maximumof light flash rusting as per standards NACE NO. 5 or SSPC SP 12- WJ2 and NV2 as referred in SSPC vis-5 pictorial standard.</p>	
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	<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>	
Thinner	Thinner 844	





Epilux CUI Coating

Two Pack High Build Epoxy Novalac

Application	<p>Stir base thoroughly and then mix the components in the recommended ratio to a homogenous consistency. Allow the mixture to mature for 5 minutes and stir again before use and during application.</p> <p>Airless Spray : Apply preferably without thinning. However, if required, add upto 5% Thinner 844. Use any standard airless spray equipment such as Graco, Binks or other with a 58 : 1 pump ratio with a fluid tip of 21 - 27 thou (0.53 - 0.68 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 and hose thoroughly immediately after use. If hose is not cleaned well, then it is to be noted that it will give improper spray and may also turn to be a safety hazard.</p>			
Work Stoppage	<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>			
Clean Up	<p>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.</p>			
Drying Time	Temperature	Touch dry	Handle dry	Hard dry
	10°C	6 hrs	14 hrs	20 hrs
	23°C	4 hrs	10 hrs	14 hrs
	30°C	2 hrs	8 hrs	12 hrs
	40°C	1 hr	6 hrs	8 hrs
Over Coating Intervals		@23°C		@30°C
	MIN	12 hrs		8 hrs
	MAX	5 days		3 days





Epilux CUI Coating

Two Pack High Build Epoxy Novalac

Curing Time	<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>
Inspection	<p>Refer SSPC PA2 guidelines for measurement of DFT.</p> <p>Do not conduct any destructive test like peel off/ pull off & 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>
Repair Methodology	<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>
Product Characteristics	<ul style="list-style-type: none"> • Epilux CUI Coating exhibits excellent resistance to acids, alkalis, solvents, salts, and water when exposed to splashes and spillages. • It has a CUI Operating Temperature range of -196°C to +230°C. • It exhibits good flexibility. • It offers excellent abrasion resistance.
Disclaimer	<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>