











Two Pack Epoxy with Special Hardener

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Product Description

A high build direct to metal epoxy mastic coating designed for application well prepared steel surfaces with an option to be overcoated with suitable epoxy/ polyurethane finishes. Can serve as an ideal maintenance coating compatible with firmly adhering aged coatings and most of the poxy and PU topcoats.

Usage Areas

Protectomastic DTM Coating is suitable for Carbon steel, Stainless steel, and Galvanized surface. Recommended for use in refineries and petrochemicals, external of pipelines in port installations etc.

Product Data

Composition	Modified epoxy with special catalyst
Volume Solids	80±2%
VOC	165 gms/ltr
Mixing Ratio	Base : Catalyst :: 1:1 (V/V)
Application Method	Brush or Airless Spray
Recommended DFT	75-150 μ per coat
Recommended WFT	94-188 μ per coat
Theoretical Spreading Rate	5.3-10.7 m ² /ltr /coat
Colour	Grey
Gloss	Smooth and Semi 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 ⁰ C	25 ⁰ C	40°C	
	5 hrs	4 hrs	2.5 hrs	1 hr	























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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	DTM Coating	Protectomastic DTM Coating
Mid Coat	Epoxy MIO, TiO ₂	Epilux 485 High Build MIO, Epilux 155 SB RPL MIO Coating
Top Coat	Polyurethane, Polysiloxane, Epoxy	Luxathane Polyurethane Finish, Epilux 4 HB Epoxy Coating

Pack size Volume		UOM	Part A	Part B	Total
	Volume	Lt/Kg	10 ltr	10 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 ≤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.

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:

Shelf life

- 1. Storage life @23oC 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	Part A	Part B	Mixed Paint
Point	28°C	28°C	28°C

Health & Safety

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















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APPLICATION GUIDELINE

Substrate	Carbon Steel & Mild Steel, Stainless Steel and Galvanized Surfaces		
Surface preparation	Carbon Steel & Mild 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. Make full use of mechanical tools alongwith manual chipping and wire brushing to remove loose rust to SSPC SP2 or SP3 for Rust Grade C or D in new steel or in E for coated steel; else for Rust Grade A, B, G, H abrasive blasting is required as per SSPC SP 10 for application of the primer. Stainless Steel and Galvanized Surfaces: Remove grease, oil and other contaminants in accordance with SSPC SP1 and roughen the surface using manual and power tool as per SSPC SP2/ SP3 Thoroughly dust down all surfaces. The surface should be clean and dry before application of primer coat and the subsequent coats. Excessive burnishing of steel has to be avoided while working with power tools.		
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 liquid 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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	For brushing, use marks will be visi film thickness is	Application of first coat should preferably be done by brushing for better wetting of the surface. For brushing, use a short bristle for working the material into all irregularities. However, brush marks will be visible. In order to achieve desired performance it is essential that the recommended film thickness is obtained. On sharp edges, bolt heads, flanges, etc., application of a stripe coat will assure freedom from skips or holidays.			
Application	upto 5% is recon	Conventional Spray: Normally no thinning is required. However, addition of Thinner 844 upto 5% is recommended for ease of application. Use any standard equipment at an atomising pressure of 3.5 - 4.2 Kg/cm ² .			
	pump ratio 45:1. Tip Size : 0.53-0.	Airless Spray: Add maximum upto 10% Thinner 844. Use any standard equipment having			
Work Stoppage	Keep the working	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	orclean all the sp	Clean all equipment immediately after use with thinner 844. It is good working practices to flush orclean all the spray equipment periodically. All the surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations			
	Temperature	Touch dry	Handle dry	Hard dry	
	10°C	5 hrs	8 hrs	24 hrs	
Drying Time	23°C	3 hrs	5 hr 30 min	12 hrs	
	30°C	2.5 hrs	3 hr 30 min	6 hrs	
	40°C	1 hr 40 min	2 hr 45 min	4 hrs	
			@23°C	@30°C	
Over Coating Intervals	MIN		12 hrs	6 hrs	
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Curing Time	One week minimum 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	 Prtectomastic DTM is a direct to metal coating which can be applied to MS/SS/GI with its superior adhesion on varying substrates. It has been extensively used even as a maintenance coating for application over aged painted surfaces with minimal preparation free of salts, contaminants, oil, grease and rust with use of hand/power tool cleaning. Brush application is also effortlessly done which facilitates application in hard to reach areas by spray.
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