BERGER Protecton PROTECTIVE COATINGS

Protectomastic TIO Undercoating

USES

Protectomastic TIO Undercoating is an intermediate coat designed for use on suitably primed structures, exterior of pipelines, equipments, valves and ducts in industries having aggressive atmospheres.

SCOPE

A high performance epoxy based intermediate coat that can be applied over compatible anticorrosive primer and it can be topcoated with a wide range of epoxies or polyurethane finishes. It has good water impermeability and hence provides excellent barrier protection..

PRODUCT DATA

Type : Two Pack epoxy intermediate/ Undercoat

Composition : Epoxy Resin cured with amine hardener

Mixing Ratio: Base: catalyst; 4:1

Pot Life: 1- 2 hours

Application : Brush, Airless spray

Recommended DFT : 100- 125 microns per coat

Recommended WFT: 119- 149 microns per coat

Theoretical Spreading Rate : 6.7 - 8.4 sq. mtr./ltr.

Drying Time :

TOUCH : 2-3 hours @ 30^{0} C

HARD DRY : overnight

Overcoating Interval :

MIN : overnight

MAX : one month

Colour : Assorted shades

Finish : Egg-shell

Packing : 20 Ltrs.

Thinner: Thinner 844

Storage Life : Upto 12 months as long as the sealed containers are kept under cover in a dry place under normal temperature conditions.

RESISTANCE GUIDE

Chemical Resistance :

EXPOSURES	SPLASH & SPILLAGE	MILD FUMES / OUTDOOR RESISTANCE
Acids	Good	Good
Alkalis	Very Good	Very Good
Solvent	Very Good	Very Good
Salt	Excellent	Excellent
Water	Excellent	Excellent

Note-1: Not recommended for immersion services

Note-2: Protectomastic TIO Undercoating as part of the coating system is recommended for areas as per ISO 12944-C5 (I)

Temperature Resistance :

Continuous : 90^{0} C

Intermittent : 120^{0} C

Weatherability: Excellent with top coats

Flexibility : Excellent

Abrasion Resistance : Excellent

DATA SHEET No. : 408

Issue Date : Apr 2014

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SURFACE PREPARATION

Steel: Remove grease, oil and other contaminants preferably by Solvent Cleaning to SP 1. Abrasive blast clean to a minimum of SSPC SP10. For severe corrosive conditions, blast to SSPC SP 5 with a surface profile not exceeding 35- 45 microns. If blasting is not practical, make full use of mechanical tools along with manual chipping and wire brushing to remove loose rust and scale to SSPC SP 2 / SP3. Excessive burnishing of steel is to be avoided. Thoroughly dust down all surfaces. The surface should be clean and dry before application of primer.Hydro-blasting for maintenance structures is preferred choice where there are heavy deposits of contaminants. Ultra-high pressure hydro-blasting equivalent with light flash rusting as per standards NACE NO. 5 or SSPC SP 12- WJ2 and NV2 as referred in SSPC vis-5 pictorial standard.

APPLICATION

Stir the components throughly and then mix the base and catalyst in recommended proportion to uniform consistency. Allow it to mature for 10 minutes and stir again before use and during application. Brush : Apply preferably without thinning. However, if required during application, add upto 5% Thinner 844. Brushing is recommended for touching up small areas only.
Airless Spray : Apply preferably without thinning. However, upto 5-7% Thinner 844 may be added if absolutely essential depending on conditions. Use any standard equipment having pump ratio not less than 56:1. Tip size : 0.45 - 0.58 mm. Tip Pressure : not less than 176 Kg / cm2 [2500psi]

TYPICAL PAINTING SPECIFICATIONS

Surface	1st Coat	2nd Coat	3rd Coat
Steel	Zinc Anode 304, Epilux 4 ZR Primer	Protectomastic TIO undercoating	Bergerthane PU High Gloss Enamel
Steel	Epilux FRX AC Coating, Protectomastic, Epilux 610 HB Primer	Protectomastic TIO undercoating	Epilux 4 CR Enamel/ Bergerthane Finish

Precaution :

1. Do Not apply in rain, fog or mist and when the surface temperature is 50^0C and above.
2. Freshly mixed material must not be added to that which has been mixed for sometime.
3. Do not apply in temperature below 10^0 C and relative humidity above 85%.
4. Clean all equipment with Thinner 844 immeditely after use.
5. Do not apply when the substrate temperature is less than 3^0C than the dew point temperature

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