BERGER Protecton PROTECTIVE COATINGS

Epilux 4 High Build MIO Coating

USES

Suitable for protection of steel structures in aggressive coastal and industrial atmosphere. Applications include ship loaders, hopper conveyors, silos, storage tanks, pipelines and general structurals in fertilizer plants, refineries, petrochemicals, engineering industries, etc.

SCOPE

A high build epoxy coating re-inforced with Micaceous Iron Oxide (MIO) designed for application on structural steel. Utilised as an intermediate or finish in epoxy systems, it is known for its high abrasion resistance and excellent water impermeability and can be overcoated even after months of exposure.

PRODUCT DATA

Type : Two Pack, cured with Polyamide

Composition : Catalysed epoxy resin pigmented with MIO

Mixing Ratio : Base : Catalyst – 3 : 1 by volume

Pot Life : 4–6 hours

Application : Brush or Airless Spray

Recommended DFT : 75–100 microns per coat

Corresponding WFT : 144–192 microns per coat

Theoretical Spreading Rate : 5.2 – 6.9 Sq. Mtr./Ltr.

Drying Time :

TOUCH	: 4 hours
HANDLE	: 8 hours
HARD	: Overnight

Curing Time : 7 days

Overcoating Interval :

MIN	: Overnight
MAX	: Indefinite

Flash Point : Above 22° C

Colour : Brownish Grey

Finish : Matt

Packing : 20 Ltrs.

Thinner/Cleaner : Thinner 844

Storage Life : Upto six 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	Fair	Fair
Alkalis	Good	Very Good
Solvents	Good	Very Good
Salt	Very Good	Very Good
Water	Excellent	Excellent

Temperature Resistance :

Continuous	: 93° C
Intermittent	: 120° C

Weatherability : Excellent

Flexibility : Moderate

Abrasion Resistance : Good

DATA SHEET No. : 057
Issue Date : Mar. 04

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SURFACE PREPARATION

Remove grease, oil and other contaminants preferably by using Bison Degreasing Solvent. Blast clean to a minimum of Sa 2 1/2 Swedish Standard SIS 05 5900 with a surface profile not exceeding 35–40 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 St. 2 Swedish Standard SIS 05 5900. Excessive burnishing of steel is to be avoided. Thoroughly dust down all surfaces. Best results can be achieved if the manually cleaned surface is primed with Protectomastic – Self Priming Surface Tolerant Coating. The surface should be clean and dry before application of appropriate primer.

APPLICATION

Stir the base thoroughly and then mix three parts base and one part catalyst by volume to a homogeneous consistency. Allow the mixture to mature for 30 minutes and stir again before and during application.

Brush : Apply without thinning.

Airless Spray : Apply preferably without thinning. However, upto 5% Thinner 844 may be added if absolutely essential, depending on conditions. Use any standard equipment having pump ratio 40 : 1. Tip size 0.48 – 0.53 mm. Tip pressure 140–165 Kg/cm^2.

TYPICAL PAINTING SPECIFICATIONS

Surface	1st Coat	2nd Coat	3rd Coat	4th Coat
Steel	Zinc Anode 304 or Epilux 4 Z/R Primer	Epilux 4 HB MIO	Epilux 4 CR Enl. or Epilux 155 HB or Bergerthane	Epilux 4 CR Enl. or Epilux 155 HB or Bergerthane
-do-	Epilux 610 or Epilux 13 Primer	-do-	-do-	-do-
-do-	Protectomastic	-do-	Epilux 89 HB or Epilux 5 CTE	Epilux 89 HB or Epilux 5 CTE
Galvanised Iron or Aluminium	Degrease and abrade the surface. Apply a coat of Bison Wash Primer followed by any of the above systems excluding the primer coats.			

Notes :

1. Use off the mixed paint within the stipulated pot life period.
2. Do not apply when temperature falls below 10° C or rises above 50° C and when relative humidity rises above 90%. Do not apply during rain, fog or mist.
3. Brushes and spray equipment should be cleaned with Thinner 844 otherwise equipment is likely to be damaged.

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

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