



BERGER **Protecton** PROTECTIVE COATINGS

Epilux 455 High Build MIO Coating

USES

Recommended for 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, etc.

SCOPE

A low VOC high build epoxy coating reinforced with Micaceous Iron Oxide (MIO) designed for application on structural steel as an intermediate epoxy coating. It has high abrasion resistance and superb water impermeability with extended overcoating window.

PRODUCT DATA

Type : Two Pack, cured with Polyamide

Composition : Catalysed resin pigmented with MIO

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

Pot Life : 2–4 hours

Application : Brush or Airless Spray

Recommended DFT : 100–125 microns per coat

Recommended WFT : 122–152 microns per coat

Theoretical Spreading Rate : 6.6–8.2 Sq. Mtr./Ltr.

Drying Time :

TOUCH	: 4–6 hours
HANDLE	: 8–10 hours
HARD	: 24 hours

Curing Time : 7 days

Overcoating Interval :

MIN	: Overnight
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Flash Point : Above 22° C

Colour : Brownish Grey

Finish : Egg Shell Gloss

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	Good
Salt	Very Good	Very Good
Water	Excellent	Excellent

Temperature Resistance :

Continuous	: 93° C
Intermittent	: 120° C

Weatherability : Excellent

Flexibility : Moderate

Abrasion Resistance : Very Good

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. For severe corrosive conditions, blast clean to Sa 3 with a surface profile not exceeding 65 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 clean 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 coat.

APPLICATION

Stir the base thoroughly and then mix three parts of base and one part of catalyst by volume to uniform consistency. Allow the mixture to mature for 15 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/cm².

TYPICAL PAINTING SPECIFICATIONS

Surface	1st Coat	2nd Coat	3rd Coat	4th Coat
Steel	Zinc Anode 304 or Epilux 4 Z/R	Epilux 455 HB MIO	Epilux 89 HB Finish or Epilux 155 HB	Epilux 89 HB Finish or Epilux 155 HB
-do-	Epilux 610 Primer or Epilux 13 Primer	-do-	Berger Acrylic HB PU or Bergerthane 41 S/G	Berger Acrylic HB PU or Bergerthane 41 S/G
-do-	Protectomastic	-do-	-do-	-do-
Galvanised Iron or Aluminium	Degrease and abrade the surface. Apply a coat of Bison Wash Primer followed by any of the above systems without primer coat.			

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.

DISCLAIMER

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.

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