

# BERGER Protecton

### Scope

A super high build epoxy coating reinforced with Micaceous Iron Oxide (MIO) designed for application on structural steel. Utilized as an intermediate in epoxy systems, it is known for its high abrasion resistance and excellent water impermeability and can be over coated after prolonged exposure.

# Epilux 155 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, etc.

### 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, roller, airless spray

Recommended DFT: 110-125 microns per coat

Corresponding WFT: 182-208 micron per coat

Theoretical Spreading Rate: 4.8-5.5sq.mtr./lt

Drying time:

TOUCH: 4 hours

HANDLE: 8 hours

HARD: overnight

Curing Time: 7 days

Overcoating Interval: Min: Overnight  
Max: Indefinite

Flash Point: Above 22 degree C

Colour: Brown

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 and spillage	Mild Fumes / outdoor Resistance
Acids	Fair	Fair
Alkalis	Good	Very Good
Solvent	Good	Good
Salt	Very Good	Very Good
Water	Excellent	Excellent

#### Temperature Resistance:

Continuous:	93 degree C
Intermittent:	120 degree C

Weatherability: Excellent

Flexibility: Moderate

Abrasion Resistance: Good

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Surface Preparation

**STEEL:** Remove grease, oil and other contaminants preferably by using Bison Degreasing Solvent. Blast clean to a minimum of SSPC SP10 or Swedish Standards SIS 05 5900 with a surface profile not exceeding 65 microns If blasting is not practical, make full use of mechanical tools alongwith manual chipping and wire brushing to remove loose rust and scale to St.2 Swedish Standard SIS 05 59000. Excessive burnishing of steels 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; otherwise treatment with Bison Metal Conditioning Solution will also produce satisfactory results.  
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 a homogeneous consistency. Allow the mixture to mature for 30 minutes and stir again before application and during use.

**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	4 <sup>TH</sup> coat
Steel	Zinc Anode 304 or Epilux 4 Z/R HB Primer	Epilux 155 HB MIO	Epilux 4 Enamel or Epilux 155 HB or Bergerthane 41 SG Urethane	Epilux 4 Enamel or Epilux 155 HB or Bergerthane 41SG Urethane
-do-	Epilux 610 or Epilux 13 HB Primer	- do -	- do -	- do -
-do-	- do -	- do -	Linisol C/R Enl.	Linisol C/R Enl.
-do-	Protectomastic	- do -	Epilux 155 HB or Epilux 5 CTE	
Galvanised Iron And Aluminium	Degrease and abrade the surface. Apply a coat of Bison Wash Primer followed by any of the above systems excluding primer coats.			

Notes:

- 1. Use off the mixed paint within the stipulated pot life period
- 2. Do not apply when the temperature falls below 10 degree C or rises above 50 degree C and when relative humidity rises above 90% or 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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**Data Sheet No. 058/Rev.2**

**Issue Date – Jan 2006**