



BERGER Protecton PROTECTIVE COATINGS

Epilux 4 Chemical Resisting Enamel

USES

Recommended for application on suitably primed steel structures exposed to chemical and industrial environment in fertilizer, refineries, petrochemicals, paper and pulp plants, food and pharmaceutical units, etc.

SCOPE

A two pack high performance epoxy top coat having good chemical resistance coupled with decorative appeal. The product possesses good flexibility, adhesion and oil resistance.

PRODUCT DATA

Type : Two Pack, cured with Polyamide

Composition : Catalysed epoxy resin suitably pigmented

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

Pot Life : 4–6 hours

Application : Brush, Conventional or Airless Spray.

Recommended DFT : 25–35 microns per coat

Corresponding WFT : 61–85 microns per coat

Theoretical Spreading Rate : 11.7–16.4 Sq. Mtr./Ltr.

Drying Time :

TOUCH	: 2–3 hours
HANDLE	: 6–8 hours
HARD	: Overnight

Curing Time : 6–7 days

Overcoating Interval :

MIN	: Overnight
MAX	: 5 days

Flash Point : Above 22° C

Colour : As per Protecton colour card

Finish : Glossy

Packing : 20 Ltrs.

Thinner/Cleaner : Thinner 844

Storage Life : Upto twelve 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	Good
Alkalis	Good	Good
Solvents	Good	Good
Salt	Good	Good
Water	Good	Good

Temperature Resistance :

Continuous	: 93° C
Intermittent	: 120° C

Weatherability : Very good in combination with suitable primer

Flexibility : Very Good

Abrasion Resistance : Good

SURFACE PREPARATION

Steel : 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 to Sa 3 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 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 30 minutes and stir again before and during application.

Brush : Apply without thinning. However, if required during application add maximum upto 5% Thinner 844.

Conventional Spray : Add maximum upto 10% Thinner depending on conditions. Use any standard equipment at an atomising pressure of 3.5–4.2 Kg/cm².

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 30:1. Tip size 0.33–0.38 mm. Tip pressure 110–140 Kg/cm².

TYPICAL PAINTING SPECIFICATIONS

Surface	1st Coat	2nd Coat	3rd Coat	4th Coat
Steel	Epilux 4 Z/R Primer or Epilux 610 Primer or Epilux 13 Primer	Epilux 4 Z/R Primer or Epilux 610 Primer or Epilux 13 Primer	Epilux 4 CR Enamel	Epilux 4 CR Enamel
-do-	-do-	Epilux 4 HB MIO	-do-	-do-
-do-	Protectomastic	-do-	-do-	-do-
Galvanised Iron & Aluminium	Degrease and abrade the surface and 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.

DISCLAIMER

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