BERGER Protecton PROTECTIVE COATINGS

Berger Epoxy PU High Build Coating

USES

An ideal high build coating for application on structurals, pipelines, tankages and other critical areas of fertilizers, petrochemicals, heavy chemicals, metallurgical industries, etc. The product has tendency to chalk on exposure which will not impair with performance.

SCOPE

A high build polyurethane coating to provide excellent corrosion resistance properties in chemical and saline environments. When fully cured it forms a tough, abrasion resistant finish. It is also suitable as a tank coating for storage of a wide range of commodities.

PRODUCT DATA

Type : Two Pack, cured with Aromatic Isocyanate

Composition : Epoxy resin with urethane hardener, suitably pigmented

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

Pot Life : 4–6 hours

Application : Brush or Airless Spray

Recommended DFT : 55–65 microns per coat

Corresponding WFT : 110–130 microns per coat

Theoretical Spreading Rate : 7.7–9.1 Sq. Mtr./Ltr.

Drying Time :

TOUCH	: 90 minutes
HANDLE	: 6–8 hours
HARD	: Overnight

Curing Time : 7 days

Overcoating Interval :

MIN	: Overnight
MAX	: 5 days

Flash Point : Above 22° C

Colour : Assorted shades

Finish : Egg shell

Packing : 20 Ltrs.

Thinner/Cleaner : Thinner 841 IGF

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	Very Good	Excellent
Alkalis	Good	Very Good
Solvents	Good	Very Good
Salt	Excellent	Excellent
Water	Very Good	Very Good

Temperature Resistance :

Continuous	: 93° C
Intermittent	: 120° C

Weatherability : Good (Chalks)

Flexibility : Moderate

Abrasion Resistance : Good

DATA SHEET No. : 084
Issue Date : Mar. 04

BERGER Protecton PROTECTIVE COATINGS

Berger Epoxy PU High Build Coating

SURFACE PREPARATION

Steel : Remove grease, oil and other contaminants preferably by using Bison Degreasing Solvent. Blast clean to a minimum 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 coat. NEW CONCRETE : Ensure that the concrete is cured for a minimum of three months. The surface is to be made rough and free from laitance and other contaminants by sand sweeping. OLD CONCRETE : Remove all salt deposits from the surface by water jet washing. Light sand blast the surface to remove all loosely bound coatings and roughening up of firmly adhering coatings to ensure anchorage with recommended systems. Ensure all dust/other particles are fully removed by suction or air blast and the surface is fully cleaned and dry before application of paints. In non-critical areas where blasting is not possible, water jet washing and hard wire brushing are minimum requisites.

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 use and during application.

Brush : Apply preferably without any thinning. However, add upto 5% Thinner 841 IGF if required, depending on conditions.

Airless Spray : Apply preferably without any thinning. However, upto 5% Thinner 841 IGF may be added if absolutely essential, depending on conditions. Use any standard equipment having pump ratio 40 : 1. Tip size 0.48–0.66 mm. Tip pressure 110–160 Kg/cm^2.

TYPICAL PAINTING SPECIFICATIONS

Surface	1st Coat	2nd Coat	3rd Coat
Steel	Epilux FRX A/C Ctg. or Epilux 13 HB Pr.	Berger Epoxy PU HB Ctg.	Berger Epoxy PU HB Ctg.
-do-	Zinc Anode 304 or Epilux Z/R	-do-	-do-
-do-	Protectomastic	-do-	-do-
Concrete & Plastered Surfaces	Epilux 4 Clear Lacquer	-do-	-do-
Galvanised Iron & Aluminium	Degrease and abrade the surface. Apply a coat of Bison Wash Primer followed by 1 or 2 coats of Berger Epoxy PU High Build Coating.		

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 841 IGF otherwise they are likely to be damaged.
4. Special care to be taken to immediately close the partly used catalyst container since the catalyst is very susceptible to atmospheric moisture.

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

DATA SHEET No. : 084
Issue Date : Mar. 04

BERGER PAINTS INDIA LIMITED
Berger House,129 Park Street, Kolkata 700017 **Phone :** (033) 2229 9724 (5 lines) / 2249 9754 (4 lines) **Fax :** 91-33-2249 9729 / 2249 9009
Email : NORTH : bpil_okh@mantraonline.com **SOUTH** : bpil_ch2@sify.com **EAST** : bpil_cl1@vsnl.net **WEST** : bpil_vsh@vsnl.net