BERGER Protecton PROTECTIVE COATINGS

Epilux 5 Coal Tar Epoxy

USES

An ideal coating for protection of sluice and barrage gates, caissons, hydel penstocks, pipelines, storage tanks and structural steel work in fertilizer, chemical, refineries and coastal installations.

SCOPE

A two pack epoxy tar coating having excellent water and alkali resistance. This is suitable for protection of steel in conjunction with cathodic protection systems. It withstands back-filling material and is not affected by alkalinity or sulphates in soil water.

PRODUCT DATA

Type : Two pack, cured with Polyamide

Composition : Epoxy coal tar suitably pigmented

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

Pot Life : 4–6 hours

Application : Brush or Airless Spray

Recommended DFT : 80–100 microns per coat

Corresponding WFT : 118–147 microns per coat

Theoretical Spreading Rate : 6.8–8.5 Sq. Mtr./Ltr.

Drying Time :

TOUCH	: 4 hours
HANDLE	: 12–16 hours
HARD	: 24 hours

Curing Time : 7 days

Overcoating Interval :

MIN	: 24 hours
MAX	: 5 days

Flash Point : Above 22° C

Colour : Black and Brown

Finish : Semi-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	Good	Good
Alkalis	Good	Good
Solvents	Poor	Poor
Salt	Good	Good
Water	Excellent	Excellent

Note : The product is suitable for sustained immersion in salt and sea water

Temperature Resistance :

Continuous	: 93° C
Intermittent	: 120° C

Weatherability : Fair (Chalks)

Flexibility : Fair

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 Sa 2 1/2 Swedish Standard SIS 05 5900 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 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.

Concrete : 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 recommeded system. Ensure all dust/other particles are fully removed by suction or air blast and the surface is fully clean and dry before application of paint. 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 a homogeneous consistency. Allow the mixture to mature for 30 minutes and stir again before application and occasionally during use.

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

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 - 0.58 mm. Tip pressure 110 - 150 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 5 CTE	Epilux 5 CTE	
-do-	Epilux 610 or Epilux 13 HB Primer	Epilux 4 HB MIO	-do-	Epilux 5 CTE
-do-	Protectomastic	Epilux 5 CTE	-do-	
Concrete or Plastered Surfaces	Epilux 4 Clear Lacquer	-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 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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