



BERGER Protecton PROTECTIVE COATINGS

Epilux 555 Coal Tar Epoxy High Build

USES

Recommended for use on structural steel, pipelines and equipment for fertilizers, refineries, chemical and coastal installations. An ideal coating for application on barrage gates and hydel penstocks.

SCOPE

A high solid coal tar epoxy coating with outstanding performance in highly saline, chemical and most severe corrosive environments. The product has superb water resistance properties and is also unaffected by alkalinity or sulphates in soil water and is suitable for use in conjunction with cathodic protection.

PRODUCT DATA

Type : Two pack, cured with Amine Adduct

Composition : Epoxy coal tar suitably pigmented

Mixing Ratio : Base : Catalyst – 55 : 45 by volume

Pot Life : 4–6 hours

Application : Brush or Airless Spray

Recommended DFT : 125–200 microns per coat

Corresponding WFT : 160–256 microns per coat

Theoretical Spreading Rate : 3.9–6.2 Sq. Mtr./Ltr.

Drying Time :

| | |
|--------|-------------|
| TOUCH | : Overnight |
| HANDLE | : 24 hours |
| HARD | : 48 hours |

Curing Time : 6–7 days

Overcoating Interval :

| | |
|-----|------------|
| MIN | : 24 hours |
| MAX | : 5 days |

Flash Point : Above 22° C

Colour : Black

Finish : Low Sheen

Packing : 35 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 | Very Good | Very Good |
| Alkalis | Very Good | Very Good |
| Solvents | Good | Good |
| Salt | Excellent | Excellent |
| Water | Excellent | Excellent |

Temperature Resistance :

| | |
|--------------|----------|
| Continuous | : 93° C |
| Intermittent | : 120° C |

Weatherability : Good (Chalks)

Flexibility : Good

Abrasion Resistance : Very 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 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 recommended 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 and catalyst thoroughly and then mix the components in recommended proportion 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 0.48–0.68 mm. Tip pressure 110–160 Kg/cm².

TYPICAL PAINTING SPECIFICATIONS

| Surface | 1st Coat | 2nd Coat | 3rd Coat |
|--------------------------------|---|-------------------|-------------------|
| Steel | Zinc Anode 304 or Epilux 4 Z/R Primer | Epilux 555 CTE HB | Epilux 555 CTE HB |
| -do- | Epilux 610 or Epilux 13 HB Primer | -do- | -do- |
| -do- | Protectomastic | -do- | -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.

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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