



# 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/cm<sup>2</sup>.

### 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.

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