



# BERGER Protecton PROTECTIVE COATINGS

## Bergerthane Finish

### USES

Recommended for use in new construction and maintenance services over properly primed surfaces. An effective top coat for use in refineries, petrochemicals, fertilizers, chemicals, infrastructure and other industrial installations.

### SCOPE

An acrylic polyurethane enamel which provides a durable high gloss exterior and interior coating for chemical and saline coastal environments. It has excellent colour and gloss retention properties. When fully cured, it forms an extremely tough and abrasion resistance finish.

A non-pigmented version is available as Bergerthane Clear.

### PRODUCT DATA

**Type :** Two Pack. cured with Aliphatic Isocyanate

**Composition :** Acrylic resin with urethane hardener suitably pigmented

**Mixing Ratio :** Base : Catalyst – 4 : 1 by volume

**Pot Life :** 6–8 hours

**Application :** Brush, Conventional or Airless Spray

**Recommended DFT :** 30–35 microns per coat

**Corresponding WFT :** 75–88 microns per coat

**Theoretical Spreading Rate :** 11.4–13.3 Sq. Mtr./Ltr.

**Drying Time :**

TOUCH : 1 hour  
HANDLE : 4–6 hours  
HARD : Overnight

**Curing Time :** 7 days

**Overcoating Interval :**

MIN : Overnight  
MAX : 5 days

**Flash Point :** Above 22° C

**Colour :** Assorted shades

**Finish :** Glossy

**Packing :** 20 Ltrs.

**Thinner/Cleaner :** Thinner 825

**Storage Life :** Upto nine 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	Excellent
Solvents	Very Good	Excellent
Salt	Excellent	Excellent
Water	Excellent	Excellent

**Temperature Resistance :**

Continuous : 93° C  
Intermittent : 120° C

**Weatherability :** Excellent

**Flexibility :** Excellent

**Abrasion Resistance :** Excellent

**DATA SHEET No. :** 144

**Issue Date :** Mar. 04

**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 the 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 cleaned 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 four parts base and one part catalyst by volume to uniform consistency. Allow the mixture to mature for 30 minutes and stir again before use and during application.

**Brush** : Apply without thinning.

**Conventional Spray** : Add upto 10% Thinner 825, depending on conditions. Use any standard equipment at an atomising pressure of 3.5–4.9 Kg/cm<sup>2</sup>.

**Airless Spray** : Apply preferably without thinning. However, upto 5% Thinner 825 may be added if absolutely essential, depending on conditions. Use any standard equipment having pump ratio 30 : 1. Tip size 0.38–0.48 mm. Tip pressure 110–160 Kg/cm<sup>2</sup>.

**TYPICAL PAINTING SPECIFICATIONS**

Surface	1st Coat	2nd Coat	3rd Coat	4th Coat
Steel	Zinc Anode 304 or Epilux 4 Z/R Primer	Epilux 4 HB MIO	Bergerthane Finish	Bergerthane Finish
-do-	Epilux 610 Primer or Epilux 13 Primer	Epilux 155 HB MIO	-do-	-do-
-do-	Protectomastic	Epilux 4 HB Epoxy Fin.	-do-	-do-
Concrete & Plastered Surfaces	Epilux 4 Clear Lacquer or Protectomastic	-do-	-do-	
Galvanised Iron & Aluminium	Degrease and abrade the surface. Apply a coat of Bison Wash Primer followed by any of the above systems excluding primer coat.			

**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 825, otherwise equipment is likely to be damaged.
4. Special care to be taken to close immediately the partly used catalyst container since catalyst is very susceptible to atmospheric moisture.

**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.

**DATA SHEET No. : 144**  
**Issue Date : Mar. 04**

**BERGER PAINTS INDIA LIMITED**