BERGER Protecton PROTECTIVE COATINGS

Bergerthane PU Glossy Finish

USES

Recommended for use in new construction and maintenance services as an effective top coat. This is suitable for use in refineries, petrochemical, fertilizer, chemical, transportation industries, power plants etc.

SCOPE

Acrylic polyurethane coating to provide a durable glossy finish for industrial environments. It has excellent colour and gloss retention properties. When fully cured, it forms an extremely tough and abrasion resistant finish. The product is compatible with epoxy and PU undercoats.

PRODUCT DATA

Type : Two Pack, cured with Aliphatic Isocyanate

Composition : Acrylic resin with urethane hardener, suitably pigmented

Mixing Ratio : Base : Catalyst; 10 : 1 by volume

Pot Life : 4- 5 hours

Application : Brush, conventional or Airless Spray

Recommended DFT : 30 – 40 µ per coat

Corresponding WFT : 67 – 90 µ per coat

Theoretical Spreading Rate : 11.2 – 15.0 m^2/ltr.

Drying Time :

TOUCH	: within 30 mins.
HANDLE	:6- 8 hours
HARD	: Overnight

Curing Time : 7 days

Overcoating Interval :

MIN	: Overnight
MAX	: 5 days

Flash Point : Above 22º C

Colour : Assorted shades

Finish : Smooth & glossy

Packing : 11 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	Good	Good
Alkalis	Good	Good
Solvents	Good	Very Good
Salt	Good	Good
Water	Very Good	Very Good

Temperature Resistance :

Continuous	: 93 º C
Intermittent	: 120 º C

Weatherability : Very Good

Flexibility : Good

Abrasion Resistance : Very Good

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SURFACE PREPARATION

Steel: Remove grease, oil and other contaminants to SSPC SP1- Solvent Cleaning. Abrasive blast clean to a minimum of SSPC SP 10. For severe corrosive conditions, blast to SSPC SP 5 with a surface profile not exceeding 35-40 microns. if blasting is not practical, make full use of mechanical tools alongwith manual chipping and wire brushing to remove loose rust and scale to SSPC SP2/SP3. 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 undercoats.

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. Clean and dry the surface 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 ten parts base and one part catalyst by volume to uniform consistency. Allow the mixture to mature for 30 minutes and stir again before and during application.
Brush : Apply preferably without thinning. **Conventional Spray:** Add maximum upto 10% Thinner 825 depending on conditions. Use any standard equipment at an atomising pressure of 3.5-4.9 kg/cm 2.
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 40 : 1. Tip size 0.38 – 0.48 mm. Tip pressure 110 –160 Kg/cm^2.

TYPICAL PAINTING SPECIFICATIONS

Surface	1st Coat	2nd Coat	3rd Coat	4th Coat
Steel	Zinc Anode 304 MZ or Epilux 4 Z/R Primer	Epilux 4 HB MIO Coating	Bergerthane PU Glossy Finish	Bergerthane PU Glossy Finish
-do-	Epilux 610 Primer or Epilux HB ZP Primer	Epilux 610 Primer or Epilux HB ZP Primer	Bergerthane PU Glossy Finish	Bergerthane PU Glossy Finish
Concrete & Plastered surfaces	Epilux 4 Clear Lacquer	Epilux 4 HB MIO	Bergerthane PU Glossy Finish	Bergerthane PU Glossy Finish

Notes :

1. Use off the mixed paint within the stipulated pot life period.
2. Do not apply when temperature falls below 10º C or rises above 50º 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 is to be taken to immediately close the partly used catalyst container since the 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.

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