BERGER Protecton PROTECTIVE COATINGS

BR ACRYLIC POLYSILOXANE COATING

USES

Recommended for application as top coat on bridges, offshore superstructure, pipeline exterior, Metro Station structures and other installations where both anticorrosion and aesthetic properties are important prerequisites.

SCOPE

A high performance high solids Acrylic Polysiloxane finish coat which offers extended life when applied in an appropirate anticorrosive system. The product is tough and wear resistant and provides durable film with superb colour and glass retention.

PRODUCT DATA

Type : Isocyanate free Acrylic Polysiloxane.

Composition : Catalysed Acrylic Polysiloxane suitably pigmented

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

Application: Airless Spray/conventional pressure pot system

Pot Life : 45 - 60 minutes at ambient conditions

Recommended DFT: 50-75 microns per coat

Corresponding WFT : 77- 115 microns per coat

Theoretical Spreading Rate : 8.6 -13.0 Sq.Mtr/Ltr/Coat

Drying Time :
Touch: 2 to 3 Hrs
HANDLE: 12 to 16 hours
HARD: 24 hrs

Curing Time : 7 days minimum

Overcoating Interval :
MIN : Overnight
MAX : 5 Days

Flash Point : Above 23 Degree C

Colour : Assorted shades

Finish : Smooth and 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.

DATA SHEET No. : 185/01
Issue Date : July 2008

RESISTANCE GUIDE

Chemical Resistance :

EXPOSURES	SPLASH & SPILLAGE	MILD FUMES / OUT DOOR RESISTANCE
Acids	Good	Good
Alkalis	Good	Good
Solvents	Fair	Good
Salt	Very Good	Excellent
Water	Very Good	Excellent

Temperature Resistance :

Weatherability: Very Good

Flexibility: Excellent

Adhesion: Excellent

Artificial Ageing : Gloss retention > 80%
(ASTM G 53) after 1000 Hrs exposure

Pencil Hardness: Passes 2H
(ASTM D3363)

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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. 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 alongwith manual chipping and wire brushing to remove loose rust and scale to SA 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.

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 Base thoroughly and then mix three parts of Base and one part of Catalyst by volume to uniformity consistency. Allow the mixture to mature for ten minutes and stir again before and during application. **Conventional Spray** - Add maximum upto 10% Thiner 825. Use any standard equipment at an atomising pressure of 4.2-4.9 kg/cm2.

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 0.43 - 0.53 mm. Tip Pressure 120 - 150 Kg/Sq cm.

TYPICAL PAINTING SPECIFICATIONS

Surface	1st Coat	2nd Coat	3rd Coat	4th Coat
Steel	Zinc Anode 304 MZ or Epilux 4 Zinc Rich Epilux FRX A/c Ctng or Epilux 13 HB Primer or Epilux 610 Primer	Epilux 610 Primer	BR Acrylic Polysiloxane	BR Acrylic
Steel	Epilux Superbild STGF or Berger Protectomastic	Epilux 155 HB M10	-do-	-do-
Steel		Epilux 155 HB M10	-do-	-do-
Concrete & Plastered Surface	Epilux 4 Clear	BR Acrylic	-do-	-
Galvanised Iron & Aluminium	Degress & abrade the surface. Apply a coat of Bison Wash Primer followed by any of the above systems excluding Primer Coats			

N o te s:

1.Use off the mixed paint within the stipulated pot life period.

2.Do not apply when temperature fall below 100 C or rises above 500 C and when relative humidity rises above 90%. Do not apply during rain, fog or mist.

3.Spray equipment should be cleaned with Thinner 825 otherwise equipment is like to be damaged.

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