



BERGER **Protecton** PROTECTIVE COATINGS

Berger Protectomastic Self Priming High Build Coating

USES

Ideal maintenance coating in fertilizers, chemicals, refineries and petrochemicals, bridges, marine and port installations, pulp and paper, pharmaceuticals, food and beverage units. It is also suitable for use in containment areas of nuclear power plants. On damp steel surfaces, the aluminium version should always be used as first coat.

SCOPE

A specially formulated high build surface tolerant epoxy mastic coating for application over manually cleaned rusted surfaces. Protectomastic is the best available maintenance coating which not only tolerates firmly adhering rust but also surface dampness. Existing coating, if firmly adhering need not be removed as Protectomastic is compatible with most of them. Recommended as maintenance coating with suitable top coats. The product is suitable for application on steel as well as concrete surfaces.

PRODUCT DATA

Type : Two Pack, cured with Polyamidoamine

Composition : Modified epoxy with special catalyst suitably pigmented

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

Pot Life (10% thinned) : 90 minutes, dependant on ambient temperature.

Application : Brush and Airless Spray

Recommended DFT : 100–150 microns per coat

Theoretical Spreading Rate :

Aluminium : 5.6–8.4 Sq. Mtr./Ltr.
Colours : 6.0–9.0 Sq. Mtr./Ltr.

Drying Time :

TOUCH : 4 hours
HANDLE : Overnight
HARD : 24 hours

Curing Time : 7 days minimum

Overcoating Interval :

MIN : Overnight
MAX : Depending on conditions

Flash Point : Above 22° C

Colour : Aluminium and assorted shades
(Colours do not match Protecton colour card)

Finish : Semi Glossy

Packing : 20 Ltrs. and 40 Ltrs.

Thinner/Cleaner : Thinner T14 NPC

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 | Good | Very Good |
| Alkalis | Very Good | Excellent |
| Solvents | Good | Excellent |
| Salt | Excellent | Excellent |
| Water | Excellent | Excellent |

Note : Not recommended for immersion services in acids, alkalis or solvents. Aluminium version should not be exposed to alkalis.

Temperature Resistance :

Continuous : 82° C
Intermittent : 120° C

Weatherability : Excellent with suitable top coat

Flexibility : Excellent

Abrasion Resistance : Excellent

SURFACE PREPARATION

Steel : Remove grease, oil and other contaminants preferably by using Bison Degreasing Solvent. Make full use of mechanical tools along with manual chipping and wire brushing to remove loose rust and scale to St. 2 or St. 3 Swedish Standard SIS 05 5900. Excessive burnishing of steel is to be avoided. Thoroughly dust down all surfaces. Performance and longevity will depend on the degree of surface cleaning achieved.

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 systems. Ensure all dust/other particles are fully removed by suction or air blast and the surface is fully cleaned and dry before application of paints. In non critical areas where blasting is not possible, water jet washing and hard wire brushing are minimum requisites.

APPLICATION

Stir the components thoroughly and then mix base and catalyst in equal proportions by volume to uniform consistency; avoid over agitation if mixing is done with a power mixer. Add 10% Thinner T14 immediately before application. However, additional thinner may be added, if required during application, depending on ambient temperature. Application of first coat should preferably be done by brushing for better wetting of the surface. For brushing, use a short bristle for working the material into all irregularities. However, brush marks will be visible. In order to achieve desired performance it is essential that the recommended film thickness is obtained. On sharp edges, bolt heads, flanges, etc., application of a stripe coat will assure freedom from skips or holidays.

Airless Spray : Add maximum upto 10% Thinner T14. Use any standard equipment having pump ratio 45 : 1. Tip size 0.53–0.68 mm. Tip pressure 110–160 Kg/cm².

TYPICAL PAINTING SPECIFICATIONS

| Surface | 1st Coat | 2nd Coat | 3rd Coat | 4th Coat |
|-------------------------------|-----------------------------------|---|---|-------------------------------------|
| Steel | Protectomastic | Epilux 155 HB or Epilux 89 HB | Epilux 155 HB or Epilux 89 HB | Bergerthane or Luxathane (optional) |
| -do- | -do- | Epilux 950 Super HB | Bergerthane | |
| -do- | -do- | Epilux 4 HB MIO | Epilux 5 CTE or Epilux 555 CTE | Epilux 5 CTE or Epilux 555 CTE |
| -do- | -do- | Linosol HB MIO | Linosol C/R Paint | Linosol C/R Paint |
| Concrete & Plastered Surfaces | Epilux 4 Clear | Protectomastic Colour | Protectomastic Colour | |
| -do- | Protectomastic Colour (thin coat) | Protectomastic Colour or Epilux 78 HBTL | Protectomastic Colour or Epilux 78 HBTL | |

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 T14 NPC otherwise equipment is likely to be damaged.
 4. Mix quantities which can be used off within the utilisation period.
 5. Overcoating of Protectomastic is to be done within the stipulated period for achieving optimum intercoat adhesion. Contact Berger Protecton Division for further information.
 6. The product is based on VALSPAR/MOBIL, USA technology and is equivalent to Alumapoxy and Valchem epoxy Mastic 75 series.
- 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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