BERGER Protecton PROTECTIVE COATINGS

# Epilux 45 ZNPH Primer

## USES

An excellent corrosion resistant primer for application on Aluminium, Galvanized Iron, Cast Iron, Stainless Steel and Abrasive blasted Mild Steel substrates. Ideal for use in earth moving equipments, bulk handling components, transformers etc. Also applicable for FRP laminates.

## SCOPE

A specially designed Epoxy Zinc Phosphate Primer to provide, superior protection when applied over properly prepared substrates. The product with suitable top coats is an ideal coating system for aggressive environment.

## PRODUCT DATA

**Type :** Two Pack Epoxy Zinc Phosphate Primer

**Composition :** Modified Polyamide Catalyst cured Epoxy with Zinc Phosphate Pigment.

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

**Pot Life :** 6 - 8 Hours

**Application :** Airless Spray; Air-assisted; Brush

**Recommended DFT :** 40 - 60 µ per coat

**Corresponding WFT:** 89- 133 µ per coat

**Theoretical Spreading Rate:** 7.5 to 11.3 $m^2$/Ltr /coat

**Drying Time :** @30$^{o}$C; RH 65%

| | |
|---|---|
| TOUCH | : Within 40 Minutes |
| HANDLE | : 3 - 4 Hours |
| HARD | : 12 - 16 Hours |

**Curing Time :**7 days

**Overcoating Interval** : MIN: within one hour
MAX: 7 days

**Flash Point :** Above 22$^{o}$ C

**Colour :** Grey

**Finish:** Matt

**Packing:** 20 ltrs

**Thinner/Cleaner :** Thinner T11

**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 | Fair | Good |
| Alkalis | Fair | Good |
| Solvent | Excellent | Excellent |
| Salt | Excellent | Excellent |
| Water | Excellent | Excellent |

**Temperature Resistance :**

| | |
|---|---|
| Continuous | : 90$^{o}$ C |
| Intermittent | : 120$^{o}$ C |

**Weatherability :** Excellent. Should be top coated for maximum durability.

**Flexibility** : Very Good

**Abrasion Resistance** : Good

**DATA SHEET No. : 405**
**Issue Date : Apr 2014**

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## SURFACE PREPARATION

MIld Steel: Remove grease, oil and other contaminants preferably by using Solvent Cleaning as per SSPC SP1. Abrasive Blast clean to a minimum SSPC SP10. For severe corrosive conditions, blast clean to SSPC SP5 with a surface profile not exceeding 55 microns. Special care must be taken on weld areas to remove flux and spatter; welds should be ground back to avoid pockets. The cleaned surface should be clean and dry and coated before it gets contaminated.
GI, Aluminium: Remove oil, grease and other contaminants preferably using solvent cleaning to SSPC SP1. Dry Sanding with P220- P300 and repeat with cleaning solvent. May also be etch primed for better performance.
Stainless Steel: Abrasive blast with non-metallic abrasives to SSPC SP 10.
FRP Laminates: Remove oil, grease and other contaminants preferably using solvent cleaning to SSPC SP1. Dry Sanding with P220- P300 and repeat with cleaning solvent.

## APPLICATION

Stir the base thoroughly and then mix three parts of base and one part of catalyst by volume to uniform consistency.
Brush : Apply without thinning.
Conventional Spray: Normally no thinning is required. However, addition of Thinner T11 upto 25- 30% is recommended for ease of application. Use any standard equipment at an atomising pressure of 4.2-4.9 Kg/Cm$^2$ using a hand gun with 1-1.2 mm orifice.
Airless Spray : Normally no thinning is required. However, addition of Thinner T11 upto 10 to 15% is recommended depending on conditions. Use any standard equipment having pump ratio 30 : 1. Tip size 0.38 - 0.48mm . Tip pressure 110 - 160 Kg/cm$^2$.

## TYPICAL PAINTING SPECIFICATIONS

| Surface | 1st Coat | 2nd Coat | 3rd Coat | 4th Coat |
|---|---|---|---|---|
| Mild Steel | Epilux 45 ZNPH Primer | Epilux 4 HB MIO (optional) | Luxathane HB PU Top Coat | Luxathane HB PU Top Coat |
| GI, Alum | Bison Wash Primer | Epilux 45 ZNPH Primer | Luxathane HB PU Top Coat | Luxathane HB PU Top Coat |
| Stainless Steel, FRP | Epilux 45 ZNPH Primer | Luxathane HB PU Top Coat | Luxathane HB PU Top Coat | |

### 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 T11 otherwise equipment is likely to be damaged.
4. Do not apply when the substrate temperature is less than 3$^0$C than the dew point temperature

Health & Safety : Please refer to the separate Safety Data Sheet available with detailed information.



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