



# BERGER Protecton PROTECTIVE COATINGS

## EPIlux FRX ANTICORROSIVE COATING

### USES

Recommended for use as an excellent anticorrosive primer for structural steel work, tanks, vessels, pipelines in Fertilizer, Refinery, Petrochemical and Chemical plants. Installation exposed to marine atmosphere will have maximum life span using paint system with Epilux FRX.

### SCOPE

A two pack high solid Epoxy Primer containing high level of Zinc Phosphate anticorrosive pigment. The easy to apply primer can develop high thickness and offers excellent protection to steel when applied in a system. It is compatible with a wide range of top coats.

### PRODUCT DATA

**Type :** Two Pack, cured with Phenalkamine hardener

**Composition :** Epoxy resin with special catalyst, pigmented with Zinc Phosphate

**Mixing Ratio :** Base : Catalyst – 6 : 1 by volume

**Pot Life :** 3–4 hours

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

**Recommended DFT :** 75–150 microns per coat

**Corresponding WFT :** 120–240 microns per coat

**Theoretical Spreading Rate :** 4.2 – 8.4 Sq. Mtr./Ltr./coat

**Drying Time :**

TOUCH : 1 hour  
HANDLE : Within 8–10 hours  
HARD : Overnight

**Curing Time :** 7 days

**Overcoating Interval :**

MIN : Overnight  
MAX : 30 days

**Flash Point :** Above 22° C

**Colour :** Grey/Red Oxide

**Thinner/Cleaner :** Thinner 844

**Finish :** Low sheen

**Packing :** 21 Ltrs.

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

**Temperature Resistance :**

Continuous : 93° C Dry heat  
Intermittent : 120° C Dry heat

**Weatherability :** Excellent with suitable top coats

**Flexibility :** Moderate

**Abrasion Resistance :** Excellent

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**SURFACE PREPARATION**

**Steel :** Remove grease, oil and other contaminants and blast clean to Sa 2 1/2 grade SIS 05 5900 with a surface profile not exceeding 65 microns. The surface should be clean and dry before application of Epilux FRX.

**APPLICATION**

Stir the contents of each can thoroughly with a broad flat stirrer. Mix the components in the recommended ratio using power mixer. Mature for 15 to 20 minutes and stir again before and during application.

**Brush :** Apply preferably without thinning. When brushing, additional coats may be required to attain the specified thickness.

**Conventional Spray :** Maximum upto 10% Thinner 844 may be added depending on conditions to help atomisation. Use equivalent to De Vilbiss JGA 502 Gun with 704 Air Cap, E Fluid Tip and Needle.

Pressure at Pot : 10 to 15 psi      Pressure at Gun : 55 to 60 psi

**Airless Spray :** Add maximum upto 5% Thinner 844 if absolutely essential. Use any standard equipment with pump ratio 40:1 and a fluid tip of 17–21 thou (0.43–0.53) and air supply of 80–100 psi.

**TYPICAL PAINTING SPECIFICATIONS**

| Surface | 1st Coat               | 2nd Coat                            | 3rd Coat                            |
|---------|------------------------|-------------------------------------|-------------------------------------|
| Steel   | Epilux FRX A/C Coating | Epilux 155 HB/<br>Epilux 4 HB Epoxy | Epilux 155 HB/<br>Epilux 4 HB Epoxy |
| - do -  | - do -                 | Epilux 155 HB MIO                   | Bergerthane Finish                  |
| - do -  | - do -                 | Epilux 950 Super                    | Bergerthane Finish (optional)       |
| - do -  | - do -                 | Epilux 5 CTE                        | Epilux 5 CTE                        |

**Precautions :** Do not apply in condition outside the parameters stated in this document without the written consent of Berger Paints India Ltd.

- Do not apply at temperature below 10° C or at relative humidity above 85% or when the surface is less than 3° C above the dew point.
- Clean all equipment with Thinner 844 immediately after use.

**Storage :** Store under cover in a well ventilated area away from the source of ignition. Keep the containers closed when not in use.

**Handling :** As with any chemical, ingestion, inhalation and prolonged or repeated skin contact should be avoided by good occupational work practice. Eye protection should be provided if there be a risk of splashes entering the eyes.

**Using :** Use with good ventilation and avoid inhalation of spray mists or fumes. While spraying, users should comply with the Spray Painting Regulations.

**Flammability :** This product is flammable. All sources of ignition must be eliminated in, or near the working area. Fight fire with foam, CO<sub>2</sub>, dry chemical powder.

**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.

Product Design Data same as "DUREPON FRX" of Orica Australia Pty. Ltd.

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