



# BERGER Protecton PROTECTIVE COATINGS

## Epilux 4 Zinc Chromate Primer

### USES

Recommended for use as a primer in chemical, fertilizer, pulp & paper, refineries, petrochemicals and other industries where high performance coating systems are required.

### SCOPE

A two pack high performance epoxy primer based on anti-corrosive zinc chromate for application on blast cleaned steel surfaces. It has excellent resistance to high humidity and saline atmosphere with suitable top coats like epoxy, chlororubber, polyurethanes, etc.

### PRODUCT DATA

**Type :** Two Pack, cured with Polyamide

**Composition :** Catalysed epoxy resin/zinc chromate pigment

**Mixing Ratio :** Base : Catalyst – 3 : 1 by volume

**Pot Life :** 3–4 hours

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

**Recommended DFT :** 25–35 microns per coat

**Corresponding WFT :** 61–85 microns per coat

**Theoretical Spreading Rate :** 11.7–16.4 Sq. Mtr./Ltr.

**Drying Time :**

TOUCH : 1 hour  
HANDLE : 4 hours  
HARD : Overnight

**Curing Time :** 7days

**Overcoating Interval :**

MIN : Overnight  
MAX : Indefinite

**Flash Point :** Above 22° C

**Colour :** Yellow & Red Oxide

**Packing :** 20 Ltrs.

**Thinner/Cleaner :** Thinner 844

**Finish :** Matt

**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	Fair	Good
Alkalis	Good	Good
Solvents	Good	Good
Salt	Very Good	Very Good
Water	Fair	Very Good

**Temperature Resistance :**

Continuous : 93° C  
Intermittent : 120° C

**Weatherability :** Very Good with suitable top coat

**Flexibility :** Good

**Abrasion Resistance :** Fair

**DATA SHEET No. :** 041  
**Issue Date :** Mar. 04

**SURFACE PREPARATION**

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 with a surface profile not exceeding 35–40 microns.

If blasting is not practical, make full use of mechanical tools along with manual chipping and wire brushing to remove loose rust and scale to St. 2 Swedish Standard SIS 05 5900. Excessive burnishing of steel is to be avoided. Thoroughly dust down all surfaces. The surface should be clean and dry before application of Epilux 4 Zinc Chromate Primer.

**APPLICATION**

Stir the base thoroughly and then mix three parts base and one part catalyst by volume to uniform consistency. Allow the mixture to mature for 30 minutes and stir again before application and during use.

**Brush :** Apply without thinning

**Conventional Spray :** Add upto 15% Thinner 844 depending on conditions. Use any standard equipment at an atomising pressure of 3.5–4.9 Kg/cm<sup>2</sup>.

**Airless Spray :** Apply preferably without thinning. However, upto 5% Thinner 844 may be added if absolutely essential depending on conditions. Use any standard equipment having pump ratio 30 : 1. Tip size 0.38–0.43 mm. Tip pressure 110–160 Kg/cm<sup>2</sup>.

**TYPICAL PAINTING SPECIFICATIONS**

Surface	1st Coat	2nd Coat	3rd Coat	4th Coat
Steel	Epilux 4 Z/C Primer	Epilux 4 Z/C Primer	Epilux 4 CR Enl.	Epilux 4 CR Enl.
-do-	-do-	Epilux 4 HB MIO	-do-	-do-
-do-	-do-	Epilux 155 HB or Epilux 89 HB or Bergerthane	Epilux 155 HB or Epilux 89 HB or Bergerthane	
-do-	-do-	Epilux 5 CTE	Epilux 5 CTE	
Galvanised Iron & Aluminium	Degrease and abrade the surface. Apply a coat of Bison Wash Primer followed by any of the above systems excluding the primer coats.			

**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. Application equipment should be cleaned with Thinner 844 otherwise equipment is likely to be damaged.

**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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