



BERGER Protecton PROTECTIVE COATINGS

EPIlux SUPERBILD ST GLASS FLAKE COATING

USES

An excellent maintenance coating for offshore and onshore installations subject to highly humid and saline conditions. Ideal coating for offshore platforms, refineries, petrochemical and chemical units. The product is also suitable for pipework, internals and externals.

SCOPE

A high performance Glass Flake reinforced Epoxy surface tolerant coating for corrosion resistance of new or existing steel and concrete. The product gives superb performance for immersion in splash zone and is abrasion resistant. It possesses self priming property and can adhere well onto existing aged coating in sound condition. It is compatible with a wide range of top coats.

PRODUCT DATA

Type : Two Pack Epoxy, cured with Polyamine

Composition : Glass Flake reinforced modified Epoxy resin cured with special catalyst.

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

Application : Brush, Conventional pressure pot or Airless Spray

Pot Life : 3–4 hours, dependant on ambient conditions

Recommended DFT : 200–500 microns per coat
Av. Recommended DFT-250 mic

Corresponding WFT : 240–600 microns per coat

Theoretical Spreading Rate : 3.36 Sq. Mtr./Ltr. at average 250 mic DFT

Drying Time :

TOUCH : 4 hours
HANDLE : Within 6–8 hours
HARD : Overnight

Curing Time : 7 days

Overcoating Interval :

MIN : Overnight
MAX : Depending on conditions

Flash Point : Above 25° C

Colour : Dark Grey (Arbitrary)

Finish : Smooth with Sheen finish

Thinner : Thinner 844 NPC (T14)

Packing : 20 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	Good	Excellent
Salt	Excellent	Excellent
Water	Excellent	Excellent

Note : Not recommended for immersion service in Acids, Alkalis or Solvents.

Temperature Resistance :

Continuous : 82° C Dry heat
Intermittent : 120° C Dry heat

Weatherability : Excellent though some chalking and yellowing will occur if not overcoated

Flexibility : Moderate

Abrasion Resistance : Excellent

SURFACE PREPARATION

Steel : Remove grease, oil and other contaminants. 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 before application of Epilux Superbild ST GF. Coating performance is directly proportional to the degree of surface preparation. Blasted surface will immensely improve upon performance quality of the coating.

Concrete : Ensure that the concrete is cured for minimum three months. The surface is to be made rough and free from laitance and other contaminants by sand sweeping. Ensure all dust and loosely bound old coatings are fully removed by air blast and the surface is clean and dry before application of paint. In non-critical areas, where sweep blasting is not possible, water jet washing and hard wire brushing are minimum requisites.

APPLICATION

Stir the contents of each components thoroughly with broad flat stirrer. Mix the base and catalyst in the recommended ratio preferably by using power stirrer. Mature the mix for 15 minutes and apply.

Brush : Suitable for touching up small areas and intricate objects where spraying will entail huge material loss. The process may require additional coats to achieve the desired thickness.

Conventional Spray : Thinning is normally not required. However upto 5% Thinner 844 NPC can be used depending on conditions. Use De Vilbiss JGA 502 gun with 704 Air Cap, Ex Fluid Tip and Ex Needle. Pressure at Pot : 10 to 15 psi. Pressure at Gun : 55 to 60 psi.

Airless Spray : Standard airless spray equipments can be used with pump ratio 45 : 1 and fluid tip of 31–37 thou (0.79-0.94 mm). Use maximum upto 5% Thinner 844 NPC if required depending on condition.

TYPICAL PAINTING SPECIFICATIONS

Surface	1st Coat	2nd Coat	3rd Coat	4th Coat
Steel	Ep Superbild STGF	Ep Superbild STGF		
-do-	Epilux FRX A/C	-do-	Bergerthane Finish	Bergerthane Finish
-do-	Ep Superbild STGF	EP 155 HB Enl. or Ep 89 HB	Bergerthane Finish	
Concrete	Ep Superbild STGF (10–15 % Thinned)	Ep Superbild STGF	-do-	

Precaution :

1. Do not apply in conditions outside the parameters stated in this document without the written consent of Berger Paints India Ltd.
2. 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.
3. Clean all equipments with Thinner 844 NPC immediately after use.

Storage : Store under cover in a well ventilated area away from the source of heat or 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 and 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, CO₂, dry chemical powder.

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 and Data same as "DUREBILD STE Glass Flake" of Orica Australia Pty. Ltd.

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