

PRODUCT SPECIFICATIONS

Product Description

A two component, high solids epoxy intermediate coating, available in both conventional pigmentation (MIO free) and with micaceous iron oxide (MIO).

Design Feature

- An anti-corrosive build or finish coat in aggressive environments such as onshore and offshore steel superstructures, pipelines, bridges etc.
- Outstanding anti-corrosive barrier performance. Very good durability.
- MIO pigmented version gives enhanced barrier and overcoating properties.
- Excellent hardness and resistance to abrasion.
- Suitable as an intermediate coat where long-term recoating ability is required.
- Withstands dry heat up to 100°C continuous and 120°C intermittent.

Physical Characteristics

Recommended Application Data		Wet [µm]	Dry [µm]	m²/l
Theoretical Coverage		125	100	8

Volume Solids	:	80% (based on ASTM D2697)		
Dry Film Thickness Range	:	100 µm to 200 µm		
Flash Point	:	25 °C		
Finish	:	Low Sheen		
Colour Range	:	Greys		
Standard Packing Size	:	5 litres set (3.75 litres Base : 1.25 litres Hardener) 20 litres set (15 litres Base : 5 litres Hardener)		
Mix Ratio (by volume)	:	3 Base : 1 Hardener		

Application Method

AIRLESS SPRAY	:	Tip Size	:	0.53 – 0.63 mm (21 – 25 thou)
Recommended method of application	:	Pressure	:	140 – 165 kg/cm² (2000 – 2400 psi)
CONVENTIONAL AIR SPRAY	:	May be used. May require additional dilution to achieve good atomisation.		
BRUSH OR ROLLER	:	May be used. However, additional coats may be required to achieve the recommended film thickness. Suitable for stripe coating, weld-seams, edges, corners, rivets, etc.		

Drying & Curing Time

Ambient Temperature	Touch Dry	Hard Dry	Overcoating Interval		Pot Life
			Min.	Max.	
15 °C	4 hours	10 hours	10 hours	Indefinite	3 hours
25 °C	3 hours	6 hours	6 hours	Indefinite	2 hours
35 °C	2 hours	5 hours	5 hours	Indefinite	75 minutes

Useful Information

THINNER	:	SOLVALUX 7-45 or 7-33 (Maximum 10% Addition)
CLEANER	:	SOLVALUX 7-77
STORAGE	:	Store in a cool dry shaded area.
SHELF LIFE AT 25 °C	:	12 months minimum when stored as prescribed in the MSDS.

Surface Preparation

The service life span and the service performance of EPILUX 58HS are directly related to the degree of surface preparation.

STEEL

- EPILUX 58HS should be applied to a surface that has been blast cleaned and suitably primed
- The underlying system should be intact, sound and undamaged. The primer should be either 2 pack epoxies, polyurethane or zinc silicates.
- Ensure that the surface to be over-coated is clean, dry, and free from dust, grease and oil, or any other surface contaminants.
- A fresh water wash must follow to remove all soluble salts.
- Always ensure that the maximum over-coating time for the primer / build coat is not been exceeded prior to application.

To avoid condensation of moisture onto substrate prior to coating application, relative humidity should not exceed 85% and substrate temperature should be more than 3 °C above Dew Point.

Suitable Primers

Epilux 68, Epilux 610, Epilux 78, Epilux 171, Epilux 800, Zincanode 685, Zincanode 668, Zincanode 300, Zincanode 330, Epimastic 3000HS, Epimastic 3100, Epimastic 5100, Luxaprime 1501, Luxaprime 1801

Suitable Finish Coats

Luxol 5000, Epilux 218, Luxathane 5075, Luxathane 5150HS, Luxathane 5000 HB, Epilux 4, Epimastic 3000HS

Notes

- The coating specifications given above are typical. For specific recommendations to suit individual applications please refer to your Berger Paints representative.
- Two topcoats may be necessary to cover the MIO version of EPILUX 58HS coating surface if a light colour topcoat is required.
- Common to all epoxies this product will experience yellowing and chalking on prolonged exposure to sunlight. However, this phenomenon is not detrimental to coating performance.
- Exposure to very low temperatures, high humidity or water ponding during and/or immediately after application may result in incomplete cure and/or discolouration that may compromise subsequent intercoat adhesion.

Safety Precaution

- Avoid contact with eyes and skin. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use barrier cream.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe in vapour or spray mist.
- This product is flammable. Keep away from sources of ignition. Do not smoke.
- Take precautionary measures against static discharge.
- In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.

First Aid

- Eyes** : In the event of accidental splashes, flush eyes with warm water immediately and seek medical advice.
- Skin** : Wash skin thoroughly with soap and water or approved industrial cleaner. Do Not Use solvents or thinners.
- Inhalation** : Remove to fresh air, loosen collar and keep patient rested.
- Ingestion** : In case of accidental ingestion, DO NOT INDUCE VOMITING. Obtain immediate medical attention.

For further safety information, please refer to our **Material Safety Data Sheet (MSDS)**

The information provided on this data sheet is not intended to be complete and is provided as general advice only. It is the responsibility of the user to ensure that the product is suitable for the purpose for which he wishes to use it. As we have no control over the treatment of the product, the standard of surface preparation of the substrate, or other factors affecting the use of this product, we are not responsible for its performance nor would we accept any liability whatsoever or howsoever arising from the use of this product unless specifically agreed to in writing by us. The information contained in this data sheet may be modified by us from time to time, and without notice, in the light of our experience and continuous product development.

R1-072025