

PRODUCT SPECIFICATIONS

Product Description

A two component, heavy duty, chemically resistant solvent free amine cured epoxy coating.

Design Feature

- Suitable for use as an epoxy gloss finish and/or maintenance coating for concrete flooring
- Suitable for using as maintenance coating for structural steelwork, equipment etc.
- Excellent gloss and chemical resistance.
- Flexible, tough and high strength coating.
- Environment friendly, zero VOC coating.
- FDA approved product and hence recommended to use for flooring in Food and Hygiene industries

Physical Characteristics

Recommended Application Data		Wet [μm]	Dry [μm]	m²/l
Theoretical Coverage		200	200	5.0
Volume Solids	:	100% (based on ASTM D2697)		
Dry Film Thickness Range	:	125 μm to 500 μm		
Flash Point	:	90 °C		
Finish	:	Gloss		
Colour Range	:	Various Colours		
Standard Packing Size	:	20 L (15.6 L Base : 4.4 L Hardener)		
Mix Ratio (by volume)	:	3.55 Base : 1 Hardener		

Application Method

- AIRLESS SPRAY : Tip Size : 0.58 – 0.69 mm (23 – 27 thou)
 Recommended method of application : Pressure : 280 –320 kg/cm² (4000 – 4500 psi)
- 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.

*** Important:** Mix the two components of this product only when ready to apply. Once mixed apply immediately. As this product has a very short potlife, delays in application may adversely affect self-levelling properties and may jam up airless spray equipment.

Drying & Curing Time

Substrate Temperature	Touch Dry	Hard Dry	Overcoating Interval		Pot Life
			Min.	Max.	
15 °C	6 hours	24 hours	24 hours	7 days	75 mins.
25 °C	4 hours	12 hours	16 hours	5 days	1 hour
35 °C	2 hours	8 hours	12 hours	3 days	40 mins.

Useful Information

- THINNER : Not required
- 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 518 is directly related to the degree of surface preparation.

CONCRETE

- Clean surface and apply Luxafloor 1000 primer. Apply Luxafloor 5000 tacky over primer and after overnight drying apply Epilux 518 as finishing coat
- Before painting remove dust from the surface. Ensure that the surface to be coated is clean, dry and free from any contaminants.

STEEL

- EPILUX 518 should be applied to a surface that has been blast cleaned. It may be applied directly to blast cleaned steel or over a suitable primer e.g. EPILUX 610.
- After blasting, remove dust from the surface. Ensure that the surface to be coated is clean, dry and free from any contaminants.
- Apply Epilux 518 immediately after blasting to prevent oxidation and recontamination of the steel surface. The use of a dehumidification system and / or the use of a suitable blast/holding primer such as Epilux 610, is recommended to prevent oxidation of the blasted steel surface. In case of oxidation / recontamination, re-blast to the required standard.

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 Undercoats

Epilux 610, Luxafloor 1000, Epimastic 3000HS, Epiluxaqua 10, Epiluxaqua 50, Epilux 218

Notes

- The coating specifications given above are typical. For specific recommendations to suit individual applications, please refer to your Berger Paints representative.
- Please consult your Berger Paint Representative for recommendations on suitability for the containment of specific cargo / cargoes.
- Common to all epoxies this product will experience chalking on prolonged exposure to sunlight. However, this phenomena 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.

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.

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.

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