EPILUX 518
Solvent Free Epoxy Amine

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

DESIGN FEATURES
As an internal tank lining suitable for use with a wide range of chemicals e.g. crude oil, edible oil, effluent wastewater etc. Approach your Berger Paints representative for specific cargo resistance suitability and advice.
Suitable for use as an epoxy gloss finish and/or maintenance coating for concrete, structural steelwork, equipment etc.
Excellent chemical resistance.
Flexible, tough and high strength coating.
Environment friendly, zero VOC coating.

PHYSICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Recommended Application Data</th>
<th>Wet [µm]</th>
<th>Dry [µm]</th>
<th>m²/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical Coverage</td>
<td>200</td>
<td>200</td>
<td>5.0</td>
</tr>
</tbody>
</table>

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 litres set (15.6 Litres Base : 4.4 litres 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

<table>
<thead>
<tr>
<th>Substrate Temperature</th>
<th>Touch Dry</th>
<th>Hard Dry</th>
<th>Overcoating Interval</th>
<th>Pot Life</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum</td>
<td>Maximum</td>
<td>Minimum</td>
<td>Maximum</td>
</tr>
<tr>
<td>15 °C</td>
<td>6 hours</td>
<td>24 hours</td>
<td>24 hours</td>
<td>7 days</td>
</tr>
<tr>
<td>25 °C</td>
<td>4 hours</td>
<td>12 hours</td>
<td>16 hours</td>
<td>5 days</td>
</tr>
<tr>
<td>35 °C</td>
<td>2 hours</td>
<td>8 hours</td>
<td>12 hours</td>
<td>3 days</td>
</tr>
</tbody>
</table>

USEFUL INFORMATION
THINNER: Not required
CLEANER: SOLVALUX 7-77
STORAGE: Store in a cool dry shaded area.
SURFACE PREPARATION

The service life span and the service performance of EPILUX 518 is directly related to the degree of surface preparation.

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.
- Remove all wax, oil and grease by solvent cleaning in accordance with the guidelines given by SSPC-SP1. Where necessary remove weld spatter and round off all rough weld seams and sharp edges to a smooth surface.
- Abrasive blast clean to a minimum standard of Sa2½ (ISO 8501-1:1988) or SSPC-SP10. An average surface profile of 75 – 100 microns is required.
- Ensure that all surface defects detected after blast cleaning is ground, filled or treated in a suitable manner.
- 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.

<table>
<thead>
<tr>
<th>SUITABLE PRIMERS</th>
<th>Epilux 610</th>
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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 discoloration.

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)

DISCLAIMER

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.