



EPILUX 18HS

High Solids Coal Tar Epoxy

PRODUCT DESCRIPTION

A two component, high solids coal tar epoxy anti-corrosive coating.

DESIGN FEATURES

An anti-corrosive protective coating that is ideal for total, partial or intermittent submerged structures such as pilings, pontoons, jetties, dock gates etc.

Outstanding anti-corrosive performance with excellent fresh and seawater resistance.

Compatible with cathodic protection.

Good abrasion resistance.

Able to withstand wet heat of up to 60°C.

Able to achieve 400 microns dry film build in a single coat application.

PHYSICAL CHARACTERISTICS

Recommended Application Data	Wet [μm]	Dry [μm]	m ² /l
	Theoretical Coverage	165	125
Volume solids	76 \pm 2 % (based on ASTM D2697)		
Dry Film Thickness Range	125 μm to 400 μm		
Flash Point	36 °C		
Finish	Matt		
Colour Range	Brown / Black		
Standard Packing Size	20 litres set (6.67 litres Base : 13.33 litres Hardener)		
Mix Ratio (by volume)	1 Base : 2 Hardeners		

APPLICATION METHOD

AIRLESS SPRAY	Tip Size : 0.58 – 0.63 mm (23 – 25 thou)
Recommended method of application	Pressure : 140 –165 kg/cm ² (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

Substrate Temperature	Touch Dry	Hard Dry	Overcoating Interval		Pot Life
			Minimum	Maximum	
15 °C	4 hours	24 hours	24 hours	10 days	6 hours
25 °C	2 hours	12 hours	16 hours	5 days	3 hours
35 °C	1 hour	8 hours	12 hours	3 days	2 hours

USEFUL INFORMATION

THINNER	: SOLVALUX 7-45 or SOLVALUX 7-33 (Maximum 20% addition)
CLEANER	: SOLVALUX 7-77
STORAGE	: Store in a cool dry shaded area.



SURFACE PREPARATION

The service life span and the service performance of EPILUX 18HS is directly related to the degree of surface preparation.

STEEL

This product should be applied to a surface that has been blast cleaned. It can be applied either directly to steel or to a suitably primed surface (e.g. with EPILUX 610 or ZINCANODE 685).

- Remove all wax, oil and grease in accordance with the guidelines given by SSPC-SP1.
- Where necessaries 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.
- Any surface defects revealed by blast cleaning should be rectified in a suitable manner.
- An average surface profile of 50 - 75 microns is acceptable.
- Apply Epilux 18HS immediately after blasting to prevent oxidation and recontamination of the steel surface. In case of oxidation or recontamination, re-blast to the required standard.

CONCRETE

- Ensure that the surface is sound. Remove laitence by thorough wire-brushing, acid etching or sweep blasting. Blowholes and other defects should be filled with Solventless Epoxy Filler. The first coat must be thinned by 20% for direct application to concrete.

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 610, Epilux 78, Zincanode 685, Zincanode 668
SUITABLE FINISH COATS	Epilux 18HS

NOTES

- Coal Tar based products have tendency to bleed and hence can show darkening of colour of finish coat applied on it.
- The coating specifications given above are typical. For specific recommendations to suit individual applications, please refer to your Berger Paints representative.
- Common to all epoxies this product will experience 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

This product contains coal tar pitch.

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)**

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.