BERGER PAINTS PROTECTIVE COATINGS

EPILUX 218 HS

HB Epoxy Undercoat

PRODUCT DESCRIPTION

A High Build Epoxy polyamide coating with outstanding chemical resistance. The product is formulated using high molecular epoxy resin and quality pigments.

- It can be applied direct to concrete or also as a build coat for structural steel work in aggressive environments.
- Excellent resistance to fresh and salt water.
- High film build in one coat.
- Low water permeability. Good solvent and chemical resistance.

DESIGNED USE

- High build epoxy for the protection of steel and concrete.
- Suitable for application to pipelines, harbour and shore installation, tanks.
- Suitable as intermediate for upto C5 Environment as per ISO12944 Part 2 along with suitable topcoats

PHYSICAL DATA

VOLUME SOLIDS (Based on ASTM D2697)	68 % ± 2 %
TYPICAL DRY FILM THICKNESS	125 microns
WET FILM THICKNESS	184 microns
THEORETICAL COVERAGE	5.44 m^2/litre @ 125 microns DFT
VOC "As Supplied" (Based on ASTM D3960)	285 gms/ltr
COLOUR	Grey
FINISH	Low Sheen

APPLICATION DETAILS

METHOD OF APPLICATION :

AIRLESS SPRAY	This is the recommended method of application: Maximum 5% Thinner may be added. Tip Size: 0.43 - 0.53 mm (0.019 - 0.021 in) Pressure: 110 - 160 kg/cm^2 (1600 – 2300 psi)
CONVENTIONAL SPRAY	This is also a suitable method of application. Maximum 20% Thinner may be added Tip Size: 1.80 - 2.20 mm (0.071 - 0.087 in) Pressure: 2.75 - 3.45 kg/cm^2 (40 - 50 psi)
BRUSH OR ROLLER	May be used for difficult shapes or touch-up; however additional coats may be required to achieve the recommended film thickness. This method of application is recommended for stripe coating welds, edges, rivets etc.

DRYING TIME:

Surface Temperature	Touch Dry	Hard Dry	Re coating Interval		Pot Life
			Minimum	Maximum	
15°C	5 Hrs	32 Hrs	32 Hrs	10 Days	12 Hrs
25°C	3 Hrs	16 Hrs	16 Hrs	7 Days	6 Hrs
35°C	2 Hrs	12 Hrs	12 Hrs	5 Days	3 Hrs
45°C	1½ Hrs	8 Hrs	8 Hrs	3 Days	1½ Hrs

NO. OF COMPONENTS	Two
Mixing Ratio	3 parts Base to 1 part Hardener (by volume)
Application Conditions	Do not apply this product if the Relative Humidity exceeds 85% or if the substrate temperature is within 3°C of the dew point

ADDITIONAL INFORMATION

Thinner / Cleaning solvent	Solvalux 7-45
Storage Instruction	Store in a cool shaded dry area
Flash Point	Mixed 36°C
Packaging	5 liters & 20 liters
Shelf Life	12 months from the date of manufacture.

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SURFACE PREPARATION

This product should be applied to a surface that has been blast cleaned and suitably primed (e.g. with EPILUX or ZINCANODE Primers)

- Remove all wax, oil and grease by solvent cleaning in accordance with the guide lines given by SSPC-SPI.
- 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 Sa 2 ½ Swedish Standard SIS 05 59 00 or ISO 8501-1 : 1988
- Any surface defects revealed by blast cleaning should be ground, filled or treated in a suitable manner.
- An average surface profile of 50 microns is acceptable, but this average should not exceed 75 microns.
- After blasting, remove dust from the surface.
- The surface to be coated must also be clean and dry.

ALUMINIUM

- Degrease and abrade with Solvalux 7-45 and wet-or-dry paper. Apply LUXAPRIME 1500. followed by one coat of suitable EPILUX primers

CONCRETE

- Ensure that the surface is sound. Remove laitance by thorough wire brushing, acid etching or sweep blasting. Blowholes and other defects should be filled with EPILUX 829. EPILUX 218 HS may be applied directly to the clean sound concrete provided the first coat is thinned up to 20% Solvalux 7-45

PRODUCT USE RESTRICTIONS

- Should be over coated with suitable single and two pack topcoats.
- As common with all epoxy coating, this product will chalk on exposure to direct sunlight.
- If maximum over coating time is likely to be exceeded, apply a "tie coat"
- Dry heat resistant up to 120°C
- May also be applied between 75 and 150 Microns DFT
- Contact Berger Representative for suggesting suitable paint system

SAFETY PRECAUTIONS

- Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust masks and gloves. Use a barrier cream.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapor or spray.
- 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
- Refer to MSDS for further information.

FIRST AID

- Eyes: In the event of accidental splashes, flush eyes with water immediately and obtain medical advice
- Skin: Wash skin thoroughly with soap and water or approved industrial cleaner.
- DO NOT USE solvent 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

DISCLAIMER

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