

Epoxy 16W

Hot water epoxy lining

A two component, solvent based, amine cured epoxy lining applied in 3 layers for hot water tank lining.

Intended Uses:

A high-performance, anti-corrosive lining for galvanized, mild steel and stainless-steel tanks, vessels and pipes containing hot water and aqueous solutions up to 120°C.

Used as a protective anti-corrosive coating on surfaces exposed to dry heat up to 150°C.

Properties:

- Withstands continuous immersion at temperatures up to 120°C.
- Withstand dry heat at temperatures up to 150°C.
- Provides long term protection of hot water tanks and condensate return tanks.
- Excellent adhesion and corrosion resistance when applied to abrasive blast cleaned steel.
- Applied in a 3 to 4 coat system with each coat a thickness 50 – 75µm to give a total thickness of 200 – 300µm.

Technical Data:

Colour	Standard red oxide & grey
Finish	Smooth semi-matt
Mix Ratio (Volume)	4 : 1
Activator	Epoxy Activator 16W
Induction Period	Not required
Density	1.4 Kg/ Litre
Volume Solids	50%
Typical Film Thickness	200 – 300µm DFT
Theoretical Coverage	2.5 m ² / Litre @ 200µm DFT, allow for loss factors
Method of Application	Brush, roller, or spray
Flash Point	26°C
Temperature Resistance	Dry continuous – 150°C Immersion continuous – 120°C
Number of Coats	3 – 4 to achieve DFT

Drying Information:

	0°C	5°C	15°C	20°C	40°C	45°C
Touch Dry	-	-	-	4 hrs	-	-
Hard Dry	-	-	-	16 hrs	-	-
Full Cure	-	-	-	7 days	-	-
Overcoating Data – See Limitations						
Substrate Temp.	0°C	5°C	15°C	20°C	40°C	45°C
Minimum	-	-	-	8 hrs	-	-
Maximum	24 hrs*					

* If over-coating times are exceeding, surface should be abraded prior to coating.

Industrial & Protective: Steel & Concrete Protection - Immersion

Page 1 of 3

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

Issue Date:
01/05/2019

Surface Preparation:

The performance of this product will depend upon the degree of surface preparation. The surface to be coated must be clean and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000.

Accumulated dirt and soluble salts must be removed. Dry bristle brushing will normally be adequate for accumulated dirt. Soluble salts should be removed by freshwater rinsing. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Abrasive Blast Cleaning and Mechanical Preparation –Steel

All surfaces to be coated must be dry, clean, and free from contamination. This product should be applied to surfaces prepared by abrasive blast cleaning to Sa 2½ in accordance with International Standard ISO 8501:2007 and SSPC-SP6. A blast profile of 40 – 70 microns is recommended.

Application:

Mixing	Material is supplied in two containers as a kit. Always mix a complete kit in the quantities supplied. Once mixed the product should be used within the pot life specified. Stir the base component well with a flat-bottomed paddle or mechanical mixer until product is uniform. Continue stirring and add the entire contents of the activator container. Continue stirring until the mixture is homogeneous. Ensure that sufficient material be mixed so that the product can be applied within its use-able life. The temperature of the mixed product should preferably be above 10°C.	
Pot Life	6 hours @ 20°C	
Thinner	SA65 Thinners	0 – 20% depending on application
Airless Spray	Tip range 15 – 21 Thou. Pressure at the tip should not be less than 150 bar (2200 PSI).	
Air Spray	Gun	Pressure/Gravity Feed
	Fluid Tip	1.6mm to 1.8mm
Brush/Roller	Suitable (Typically, 50 – 75µm can be achieved)	
Work Stoppage	Thoroughly flush all equipment with SA65 Thinners . All unused material should be stored in tightly closed containers. Partially filled containers may show surface skinning and/or a viscosity increase of the material after storage. Material should be filtered, and viscosity re-adjusted before being used. Do not use the material after expiration of the pot-life.	
Clean Up	Clean all equipment immediately after use with SA65 Thinners . It is good working practice to periodically flush out the spray equipment during the course of the working day. Frequency of cleaning will depend upon the amount sprayed, temperature and elapsed time, including delays.	

Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	-10°C*	-12°C	No lower limit
Maximum	45°C	45°C	85%

* Or 3°C above dew point

Industrial & Protective: Steel & Concrete Protection - Immersion

Limitations:

- Must be applied within the narrow film thickness limits specified.
- The product will chalk on the surface when exposed to sunlight.
- Overcoating information is given for guidance only and is subject to local climate and environmental conditions. Consult a Specialized Coating Systems representative for specific recommendations.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating.

Pack Size:

5 Litre.

Storage:

- Shelf Life: 12 months at 25°C from date of manufacture. Subject to inspection thereafter.
- Store in dry conditions out of direct sunlight, away from sources of heat or ignition.
- Store at temperatures between 5°C and 35°C.

Precautions:

For complete safety and handling information please refer to the appropriate Safety Data Sheets prior to using this product.