SPECIALIZED COATING SYSTEMS

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Epoxy 151 CSF

Solvent free epoxy lining for potable water tanks & pipes

A two component, solvent free, amine cured, modified epoxy, pigmented coating / lining.

Intended Uses:

A high-performance lining for potable water tanks, steel pipe liners, and hydroelectric installations. Suitable for raw and treated water installations such as cooling water ducts and many applications in the mining industry such as lining thickener tanks, etc. Used as a coating over correctly prepared concrete surfaces.

Applied direct to metal & concrete surfaces by brush, roller, or spray application.

Properties:

- Tank lining for drinking water.
- Can be applied using a single feed airless spray equipment.
- Applied directly onto abrasive blast cleaned steel to thickness of 300 - 400µm.
- Self-priming – direct to metal / concrete.
- Light colour – good visibility in pipeline.
- Solvent free – reduced explosion risk and fire hazard.
- Solvent free - enables the contractor to apply total film thickness in a single coat.
- Good water and chemical resistances.
- Extended curing period.
- Conforms to SANS 1217 Type 1B lining, including drinking water requirement.
- Immersed temperature resistance up to 50°C.

Technical Data:

Colour	Water blue, white & grey
Finish	Gloss
Density	1.3 Kg/ Litre
Volume Solids	100%
Mix Ratio (volume)	4 : 1 (Base : Activator)
Activator	Epoxy Activator 151 CSF or CSF Fast
Typical Film Thickness	300 – 400µm dry depending on system
Theoretical Coverage	3.3 m²/ Litre @ 300µm DFT, allow for loss factors
Method of Application	Brush, roller, or spray
Number of Coats	A single coat can be applied to achieve specified DFT and a relatively pinhole free coating.
Flash Point	N/A
Induction Period	5 minutes after mixing
Temperature Resistance	Dry continuous – 50°C
VOC	44 g/Lt

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

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01/05/2019

Drying Information:

	0°C	5°C	10°C	20°C	30°C	40°C
Touch Dry	-	-	-	-	6 hrs	-
Hard Dry	-	-	-	24 hrs	16 hrs	10 hrs
Full Cure (for drinking water)	-	-	20 days	12 days	7 days	5 days
Overcoating Data – See Limitations						
Substrate Temp.	0°C	5°C	10°C	20°C	30°C	40°C
Minimum	-	-	-	-	6 hrs	-
Maximum	-	-	28 days	20 days	14 days	14 days

Note: A curing temperature below 10°C is not recommended, adequate ventilation should be maintained during application and curing.

Surface Preparation:

Abrasive Blast Cleaning and Mechanical Preparation

All surfaces to be coated must be dry, clean, and free from contamination. This product must only be applied to surfaces prepared by abrasive blast cleaning to Sa 2½ in accordance with International Standard ISO 8501:2007 and SSPC-SP10. A sharp angular profile of 50 – 70 microns is recommended.

Epoxy 151 CSF must be applied before oxidation occurs. If oxidation does occur the entre oxidised area should be re-blasted to the standard specified above.

Surface defects revealed by the blast cleaning process should be ground, filled and treated in the appropriate manner.

Concrete

Concrete should be hard, free of laitance or any weak materials. Surface should be free of contamination and debris. Mechanically abrade by diamond grinding, abrasive blast cleaning or high-pressure water jetting. Concrete moisture should not exceed 7%.

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. Transfer the mixed contents to a clean container and continue to mix with a clean mixer to avoid any contamination by unmixed material. 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. Higher temperatures result in reduced sag resistance and faster cure.	
Mix Ratio	4 part(s) base : 1 part(s) activator by volume	
Pot Life	90 minutes @ 25°C	
Brush/Roller	Recommended	
Airless Spray	Recommended	Tip range 17 – 31 Thou. Pressure at the tip should not be less than 150 bar (2176 PSI).
Thinner	Do not use thinners (Temperature can be used to control viscosity).	

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Cleaner	SA65 Thinner (For dry paint & equipment)
Work Stoppage	Do not allow material to remain in spray equipment after use, thoroughly flush and clean all equipment with **SA65 Thinner**. Once the kit has been mixed, they should not be re-sealed and it is advised that of prolonged stoppages, work recommences with freshly mixed units.
Clean Up	Clean all equipment immediately after use with **SA65 Thinner**. It is advisable to periodically flush out spraying equipment during the course of the working day. Frequency of cleaning is dependant of upon the amount sprayed, temperature and elapsed time. Work strictly in accordance with the specified pot life of the material.

Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	10°C*	15°C	No lower limit
Maximum	40°C*	45°C	85%

* Or 3°C above dew point.
Higher temperatures result in reduced sag resistance and faster cure.

Limitations:

- The product will chalk on the surface when exposed to sunlight.
- Not resistant to strong acids and alkalis.
- Dry film thickness of 600µm must not be exceeded for immersion conditions.
- Product requires induction time after mixing.
- 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.
- For best results bring the material temperature between 20 – 30°C, unless specifically instructed otherwise, prior to mixing with and application.
- Unmixed material (in closed containers) should be maintained in protected storage in accordance with information given in the STORAGE section of this data sheet.
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- 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 & 20 Litre.

Storage:

- Shelf Life: 18 months minimum 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.

Precautions:

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

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