

Epoxy 9000 PW

Hot applied solvent free epoxy coating for pipes & tanks

A two component, solvent free amine cured, hot applied epoxy lining for pipes & tanks.

Intended Uses:

A high-performance solvent free epoxy formulation that provides long-term corrosion protection to steel & concrete in immersion conditions. Fast curing for rapid overcoating.

Certified for contact with Potable Water.

Properties:

- Designed for application by plural component hot airless spray equipment.
- Can be applied by heated cartridge spraying.
- Can be applied up to 900µm thick onto cold (10°C) pipes in a single application without sagging at 50°C.
- Performs well in factory production conditions.
- High gloss, hard cured surface produces low friction conditions for pipe internals.
- Excellent air release ensures minimum pinholes.
- Excellent long-term corrosion resistance under immersion conditions (typical specification - 600µm).
- Used as a high-quality lining for tanks and pipes, applied directly onto suitably prepared steel surfaces in single or multi coat applications.
- Excellent adhesion to correctly prepared surfaces.
- Resistant against bacterial attack.
- Conforms to SANS 1217 Type 1B drinking water requirement.
- Pigmented activator ensures mixing control.
- Small mixes can be applied by brush on small areas such as pipe ends.

Technical Data:

Colour	Water blue & light grey
Finish	Gloss
Density	1.40 Kg/ Litre
Volume Solids	100%
Mix Ratio (Volume)	2 : 1
Activator	Epoxy Activator 9000 PW
Typical Film Thickness	600µm DFT depending on system
Theoretical Coverage	1.66 m ² / Litre @ 600µm DFT, allow for loss factors
Method of Application	Brush, roller, plural component hot airless spray equipment & heated cartridge
Number of Coats	1
Flash Point	N/A
Induction Period	Not required
Temperature Resistance	Wet immersion - 65°C Dry continuous - 80°C Intermittent repairs - 105°C
V.O.C	Nil

Drying Information:

	0°C	10°C	20°C	30°C	40°C	50°C
Touch Dry	-	8 hrs	3 hrs	1 hr	45 min	30 min
Hard Dry	-	12 hrs	5 hrs	3 hrs	1.5 hrs	1 hr
Overcoating Data – See Limitations						
Substrate Temp.	0°C	10°C	20°C	30°C	40°C	50°C
Minimum	-	8 hrs	3 hrs	1 hr	45 min	30 min
Maximum	-	-	-	36 hrs	-	-

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

Certifications:

Epoxy 9000 PW Has the Following Approvals:

- SANS 1217:2011 – Conforms with the requirements for drinking water.

Consult Specialized Coating Systems technical representative for details.

Systems & Compatibility:

Epoxy 9000 PW can be applied directly to correctly prepared bare steel.

Consult Specialized Coating Systems technical representative for coating system solutions.

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 75 – 100µm is recommended.

Epoxy 9000 PW must be applied before oxidation occurs. If oxidation does occur, the entire 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.

Where solvents are allowed and under special circumstances, surfaces may be primed with Epoxy Holding Primer at 15 – 25 microns DFT before oxidation occurs.

For alternative suitable methods of surface preparation consult a Specialized Coating Systems technical representative.

Concrete

Consult Specialized Coating Systems technical representative for coating system solutions.

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.
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	Ensure that just 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. No thinners should be added to this product.	
Mix Ratio	2 part(s) base : 1 part(s) activator by volume	
Pot Life	30 minutes at 20°C 25 minutes at 25°C 8 minutes at 50°C 4 minutes at 60°C 2 minutes at 70°C	
Brush/Roller	Recommended for small mixes only	
Hot Airless Spray	Recommended	Both the base and activator components should be heated to a temperature between 40°C to 60 °C. The temperature at the mixing unit should be between 55°C and 65°C, dependant on the equipment being used. The temperature at the tip should be 60°C. Tip and fan width will vary dependent on thickness to be deposited and the shape of the item to be coated. Paint reservoirs must be kept sealed and free of contamination.
Thinner	Not required	Temperature can be used to control viscosity
Cleaner	SA65 Thinner (For dry paint & equipment)	
Work Stoppage	Operators must follow strict procedures to preserve the quality of the base and activator in the reservoirs, pistons, and lines during stoppages. The mixing head must immediately be flushed after spraying stops and must be thoroughly cleaned.	
Clean Up	Material can be left in the equipment for overnight periods with the lines disconnected from the mixing head and sealed and the heaters switched off. Clean all other equipment immediately after use with SA65 Thinner. It is advisable to periodically flush out spraying equipment during the course of the contract. Frequency of cleaning is dependant of upon the amount sprayed, temperature and elapsed time. Work strictly in accordance with the procedures relevant to the spraying equipment.	

Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	10°C*	10°C	No lower limit
Maximum	60°C**	45°C	100%

* Or 3°C above the dew point.

** Higher temperatures result in reduced sag resistance and faster cure.

Limitations:

- The product is designed to be applied in one coat. Overcoating should be carried out with utmost caution and in conjunction with a Specialized Coating Systems technician.
- 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.
- 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.

- This product will chalk on the surface when exposed to sunlight.

Pack Size:

- 60 & 600 Litre.
- 200 & 600ml squish packs.
- 0.45 & 0.9 Litre cartridges.

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.