RUST-OLEUM® HIGH PERFORMANCE®

W9200 SYSTEM POTABLE WATER COATING

DESCRIPTION AND USES

A two component, polyamine converted epoxy specifically for potable water tanks.

The W9200 System is specifically designed for use as a potable water immersion coating system for concrete and steel storage tanks with 6,000 gallon minimum capacity. It can also be used for valves, hydrants and other equipment used in potable water immersion. A minimum of two coats is required for water immersion service. This coating is certified for use in potable water storage tanks by Underwriters Laboratories in accordance with ANSI/NSF Std. 61. UL Control No. 1P07. For use with cold water, 74°F (23°C).

PRODUCTS

1-Gallon	5-Gallon	Description
—	W9223300	Tank Blue
—	W9293300	Tank White
—	W9202300	Activator

RECOMMENDED PRIMERS

The Rust-Oleum® W9200 System Potable Water Coating is self priming.

PRODUCT APPLICATION

SURFACE PREPARATION

ALL SURFACES: Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with Pure Strength® Cleaner/Degreaser item #3599402, commercial detergent or other suitable cleaner. Mold and mildew areas must be cleaned with a chlorinated cleaner or bleach solution. Rinse thoroughly with fresh water and allow to fully dry. All surfaces must be dry at time of application.

STEEL (IMMERSION): Abrasive blast clean to a minimum SSPC-SP-10 Near White Grade (NACE 2) and achieve a surface profile of 1.5-3.0 mils. All weld spatter must be removed along wield seams, rough welds should be ground smooth, and all sharp edges should be ground to a smooth radius.

CONCRETE (IMMERSION): Hand or power tool clean to remove all loose or unsound concrete, masonry, or previous coating. Very dense, non-porous concrete should be acid-etched or abrasive blasted to remove the laitance layer and create a surface profile of 1.5–3.0 mils. Allow new concrete to cure for 30 days before coating.

APPLICATION

Apply only when air and surface temperatures are between 50-100°F (10-38°C) and surface temperature is at least 5°F (3°C) above dew point. The relative humidity should not be greater than 85%. The Rust-Oleum® Industrial Potable Water Coating can be applied by air-atomized or airless spray. Brush or roller applications should be limited to touch-up only. A minimum of two coats is required for water immersion service. Alternating colors is suggested.

PRODUCT APPLICATION (cont.)

EQUIPMENT RECOMMENDATIONS

BRUSH: Use a good quality natural or solvent compatible synthetic bristle brush. Avoid excessive brushing.

ROLLER: Use a good quality lamb's wool or solvent compatible roller cover, 3/8-1/2 inch nap.

AIR-ATOMIZED SPRAY: (pressure pot): Use a pressure pot system equipped with dual regulators, and a 3/8 inch ID minimum fluid hose. The gun should use a 0.070 inch fluid tip with the appropriate air cap.

AIRLESS SPRAY:

Pump Ratio	Pump Output	Fluid Hose
30:1	3.0 GPM	3/8 in. ID
Fluid Pressure	**Fluid Tip**	**Filter Mesh**
2,100-2,300	0.017-0.021	60

Teflon packages are recommended and are available from the pump manufacturer.

THINNING

Thin only with Rust-Oleum® W0102402 Thinner and do not exceed 6% (8 oz./gal.) in order to comply with Standard 61 Certification.

MIXING

Power mix base component before adding activator, then combine a at 1:1 ratio by volume and power mix together. W9202300 Activator near the end of shelf life may require additional scraping of the sides of the container during mixing to ensure all material is completely re-mixed.

CLEAN-UP

W0102402 Thinner.

PERFORMANCE SPECIFICATIONS

SPECIFICATION AND PERFORMANCE ALTERNATIVES

Meets proposed AWWA D102 Inside Coating Systems 1 & 2.

Meets ANSI/AWWA C210-92 for Interior and Exterior of Steel Potable Water Pipes.

Complies with AWWA Standard C550-90 for Protective Interior Coatings for Valves and Hydrants.

Complies with FDA 21CFR 175.300 for direct food contact.

USDA acceptable under FSIS Directive 11000.4 (Rev.1), November 24, 1995

W9200 SYSTEM POTABLE WATER COATING

PHYSICAL PROPERTIES

		POTABLE WATER COATING
Resin Type		Polyamine epoxy
Solvents		Xylene and other aromatic hydrocarbons
Weight*	**Per Gallon**	12.6 lbs.
	Per Liter	1.5 kg
Solids*	**By Weight**	86%
	By Volume	73-77%
Volatile Organic Compounds*		<250 g/l (2.1 lbs./gal.)
Recommended Dry Film Thickness (DFT) Per Coat		5-8 mils (125-200µ); two coats are required for water immersion
Wet Film to Achieve DFT		6.5-11.0 mils (162.5-275µ)
Theoretical Coverage at 1 mil DFT (25µ)		1,170-1,235 sq. ft./gal. (28.8-30.4 m^2/l)
Practical Coverage at Recommended DFT (assumes 15% material loss)		125-210 sq. ft./gal. (3.1-5.2 m^2/l)
Mixing Ratio		1:1 base to activator by volume (W9202300 activator)
Induction Period		None required
Pot Life @ 70-80°F (21-27°C) and 50% Relative Humidity		2 hours; less at higher temperatures
Dry Times at 70-80°F (21-27°C) and 50% rel. hum.	**Immersion**	5 days; 3 days at temperatures above 90°F (32°C)
	Recoat	4 hours; do not exceed 30 days; 15 days at 90°F (32°C)
Force Cure		After 4 hours at 75°F (24°C); elevate surface temperature to 150°F (66°C) for 8 hours
Dry Heat Resistance		Continuous 250°F (121°C) intemittent 300°F (149°C); color shift at temperatures greater than 200°F (93°C), but it will not affect film integrity
Shelf Life		2 years for base components; 6 months for activator
Safety Information	**Contains**	No lead has been deliberately added
	Warning!	**WARNING! FLAMMABLE. VAPOR HARMFUL IF INHALED. MAY AFFECT BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES NOSE, THROAT, EYE AND SKIN IRRITATION. FOR INDUSTRIAL OR COMMERCIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. SEE THE PRODUCT MATERIAL SAFETY DATA SHEET (MSDS) AND LABEL WARNINGS FOR ADDITIONAL SAFETY INFORMATION.**

*Activated material.

Calculated values are shown and may vary slightly from the actual manufactured material.

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