EPOXY	TECHNICAL DATA	RO-130

RUST-OLEUM® HIGH PERFORMANCE

RUST-OLEUM® 9200 SYSTEM POTABLE WATER COATING

DESCRIPTION AND USES

Rust-Oleum® 9200 System is a low VOC, low HAPS, two component phenalkamine epoxy that is designed for water immersion service and is certified for use in potable water storage tanks with 3,000 gallons capacity or larger. This coating complies with USDA FSIS regulatory sanitation performance standards for food establishment facilities. This coating is impervious to moisture and easily cleaned and sanitized.

The 9200 System is suitable for application as low as 20ºF, however to meet UL certification for the ANSI/NSF 61 Standard for potable water service, the coating must cure for 7 days at a minimum of 75ºF.

The 9200 System is also suitable for use in many other maintenance coating applications whenever low temperature curing is needed.

This product is labeled 9200 System Low Temperature Epoxy.

PRODUCT FEATURES

- Self priming DTM high build epoxy
- Excellent corrosion protection
- Excellent surface wetting
- Good early moisture resistance
- Fast dry
- Low VOC and low HAPs content
- UL Certified for use in potable water storage tanks with 3,000 gallon minimum capacity in accordance with ANSI/NSF 61 Standard

PRODUCTS

1-Gallon	5-Gallon*	DESCRIPTION
––	316834	Gray
––	316835	White
––	318207	Blue
316836	––	Activator

Base and Activator components are ordered separately.

*The 5-gallon pails are short filled to allow for the addition of one gallon of Activator. The yield is five gallons of activated material.

PRODUCT APPLICATION

SURFACE PREPARATION

ALL SURFACES: Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with Krud Kutter® Cleaner Degreaser, commercial detergent or other suitable cleaner (SSPC-SP1). Mold and mildew areas must be cleaned with a chlorinated cleaner or bleach solution. Rinse thoroughly with fresh water and allow to dry if possible. Best results are obtained if the surface is completely dry.

PRODUCT APPLICATION (cont.)

SURFACE PREPARATION (cont.)

STEEL (IMMERSION): Abrasive blast clean to a minimum SSPC-SP-10 Near-White Grade (NACE 2) and achieve a surface profile of 1½-3 mils (40-75µ). All weld spatter must be removed and rough welds should be ground smooth. 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 1½-3 mils (40-75µ). Allow new concrete to cure for 30 days before coating.

MIXING

The mixing ratio is 4:1 (base:activator) by volume. Thoroughly premix both base component and activator separately, then combine and continue mixing. The 316836 Activator may require additional scraping of the sides of the container during mixing to ensure all material is completely re-mixed. Once thoroughly mixed, the material is ready to use. Do not mix more material than can be applied within the stated pot life. Material should not need thinning. Attempt to apply material before making any thinning adjustments, up to 10%, with Low VOC Thinner 315512 or Methyl Ethyl Ketone (MEK).

APPLICATION

Apply only when the air temperature is between 20-100°F (-7-38°C) and the surface temperature does not exceed 120°F (49°C). The relative humidity should not be greater than 85%. Be aware of possible ice formation on the substrate if the surface or air temperatures are below 32°F (0°C).

For potable water immersion service a minimum of three coats are required, alternating color between coats to ensure complete hide and coverage. The coating must cure for 7 days at 75°F (24°C).

Best results are achieved by airless or air atomized spray. Application by brush and roller is acceptable; however multiple coats may be needed to obtain the desired appearance, recommended dry film thickness, and adequate hiding. Avoid excessive re-brushing or re-rolling, and tie-in within 10 minutes at 75°F (24°C).

NOTE: Brush and roller is the preferred method of application on damp substrates.

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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 short nap synthetic roller cover with a phenolic core.

AIR–ATOMIZED SPRAY: Use a pressure pot system equipped with dual regulators, and a ⅜ 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	2.5 GPM	3/8" ID
Fluid Pressure	**Fluid Tip**	**Filter Mesh**
2,000-2,500 psi	0.017-0.021	60

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

DRY AND RECOAT TIMES

Dry times based on 75°F and 50% relative humidity. The curing schedule listed is to be used as a guideline for immersion applications. The maximum recoat time is 30 days.

If the recoat time is extended, inspect for surface contamination prior to recoating. Re-wash the surface if necessary.

If the maximum recoat time has been exceeded, the surface must be abraded by sweep blasting or sanding prior to the application of additional coats.

PRODUCT APPLICATION (cont.)

CURE FOR IMMERSION SERVICE

Allow the final coat to cure for 7 days at 75°F (24°C) or 3 days a 90°F (32°C).

THINNING

Thin only with Methyl Ethyl Ketone (MEK) and do not exceed 10% by volume per gallon in order to comply with ANSI/NSF Standard 61 Certification.

CLEAN-UP

190 Thinner or MEK. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

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PHYSICAL PROPERTIES

		POTABLE WATER COATING
Resin Type		Phenalkamine Epoxy
Pigment Type		Titanium Dioxide, Microcrystalline Silica
Solvents		Xylene and other Aromatic Hydrocarbons
Weight*	**Per Gallon**	14.0 lbs.
	Per Liter	1.7 kg
Solids*	**By Weight**	80-84%
	By Volume	63-67%
Volatile Organic Compounds*		<250 g/l (2.1 lbs./gal.)
Recommended Dry Film Thickness (DFT) Per Coat		4.0-6.0 mils (100-150µ)
Wet Film to Achieve DFT		6-9.5 mils (150-238µ)
Practical Coverage at Recommended DFT (assumes 15% material loss)		140-225 sq.ft./gal. (3.4-5.5 m^2/l)
Mixing Ratio		4:1 base to activator by volume (316836 Activator)
Induction Period		None required
Pot Life		3 hours @ 70° F (21°C) and 50% RH 2 hours @ 90° F (32°C) and 50% RH
Dry Times at 75°F (24°C) and 50% Relative Humidity	**Touch**	30 minutes
	Handle	3 hours
	Recoat	45 minutes - max. 30 days for immersion service
	Immersion	7 days at 75°F (24°C) is required for potable water immersion service
Dry Heat Resistance		Continuous 180°F (82°C) intermittent 220°F (104°C); color shift at temperatures greater than 200°F (93°C), but it will not affect film integrity
Wet Heat Resistance (Non-Potable Water)		Continuous 140°F (60°C)
Shelf Life		2 years
Safety Information		For additional information, see SDS

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

* Activated material

** Pot life is affected by air temperature, amount of material activated and the quantity of thinner used. Avoid activating large quantities at temperatures above 80°F (27°C). At temperatures above 90°F (32°C), the pot life of unthinned material in 5 gallon pails may be very short (less than one hour).

RUST-OLEUM

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