RUST-OLEUM® HIGH PERFORMANCE

NOXYDE® ELASTOMERIC ACRYLIC COATING

DESCRIPTION AND USES

Noxyde Elastomeric Acrylic Coating is a high-performance, high-build, rust-preventative, water-based coating. Noxyde is self-priming and designed for marginally prepared, sound-rusted, or clean steel in mild to moderate industrial environments. It can also be used on concrete and has excellent elongation properties of 200% making it suitable for bridging small cracks. This single component coating resists corrosion, rust, and water even in severe marine environments. Can be top coated with multiple Rust-Oleum High Performance products for an extended service life for your assets.

This coating complies with USDA FSIS regulatory sanitation performance standards for food establishment facilities.

PRODUCT FEATURES AND BENEFITS

- Direct-to-Metal, Self-Priming, High-Build Water-Based Formula
- Performs Like Zinc/Epoxy Coatings Without the Need to Abrasive Blast
- Provides Flexible Durability - Up to 200% Elongation
- Excellent Adhesion and Performance Over Minimal Surface Prep
- Dries in as Little as 1 Hour
- Can be Applied Down to 45ºF
- Ten-Year Rust-Proof Guarantee*

PRODUCTS

5-Gallon Pail	DESCRIPTION (Satin Finish)
283085	Off-White (RAL 9002)
283086	Blue Gray (Fed. 26329)
283088	Beige Gray
283089	Reseda Green (Fed. 24227)
283090	White
283091	Black
283092	Red (Fed. 20152)
283093	Blue (RAL 5012)
283094	Gray Green
283095	Gravel Gray (RAL 7032)
283097	Brown (Fed. 10059)

RECOMMENDED PRIMER

Noxyde is self-priming when applied to minimally prepared rusted steel and aged galvanized steel. See PRIMING section for more information.

RUST PROOF GUARANTEE*

*Submitting the Ten-Year Rust-Proof Guarantee form located on the Noxyde Elastomeric Acrylic Coating web page completely filled out, signed and with proof of purchase attached, no later than 30 days after project completion for projects using up to 50 gallons is required to qualify for the rust-proof guarantee. For projects larger than 50 gallons, please contact Rust-Oleum Technical Service Department at: Rust-Oleum Technical Service Department, 11 Hawthorn Pkwy, Vernon Hills, IL 60061, or email to: technicalservice@rustoleum.com

COMPATIBLE TOPCOATS

A topcoat is optional. Noxyde has a light after tack, which can result in slight dirt accumulation. Topcoat if a higher final gloss is desired.

- **ROC**Thane Direct-To-Metal Urethane Mastic 9800
- **ROC**Acrylic Direct-to-Metal Acrylic Enamel 3800
- Modern Masters® Colorfast™ EX Extended Life Aliphatic Polyurethane
- Sierra Performance™ Beyond™ Multi-Purpose Acrylic Enamel
- Sierra Performance™ MetalMax® DTM Acrylic Urethane

PRODUCT APPLICATION

SURFACE PREPARATION

ALL SURFACES: Remove all dirt, grease, oil, salt, or other contaminants by washing the surface with Krud Kutter® PRO Cleaner Degreaser, detergent, or other suitable cleaner per Solvent Cleaning Standard (SSPC-SP1). Rinse thoroughly with fresh water and allow to fully dry. Thoroughly cured, hard or glossy previous coatings which are very smooth may require scuff sanding to maximize adhesion.

Hand tool (SSPC-SP-2) or power tool (SSPC-SP-3) clean to remove loose rust, scale, and deteriorated coatings to obtain a sound rusted surface. A rusted surface is considered to be sound when rust can no further be removed by scraping the surface by hand using a dull putty knife under moderate pressure.

The surface may also be prepared using High Pressure Water Cleaning (HP WC), minimum pressure 5,000 psi, in accordance with SSPC-SP WJ-4/NACE WJ-4 Light Cleaning.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-Approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

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PRODUCT APPLICATION (cont.)

PRIMING

Normally not required. Exceptions include:

NEW GALVANIZED STEEL, SMOOTH METALS, SMOOTH CONCRETE AND EXISTING COATINGS: Prime with Noxyde thinned 15-20% with fresh water. Apply a tack coat 1.5-2.0 mils (37.5-50µ) dry, 2.5-3.5 (62.5-75µ) wet. Allow tack coat to dry 1-1.5 hours before application of full coat.

DO NOT TINT

APPLICATION

Apply only when air and surface temperatures are between 45-130°F (7-55°C) and surface is at least 5°F (3°C) above dew point. The relative humidity should not be greater than 80%. The published recoat time may be extended when the relative humidity is greater than 70%. A minimum of two coats are required for a total minimum dry film thickness of 14 mils, (350µ). Apply two coats alternating color between coats to ensure complete hide and coverage.

NOTE: For best results, Noxyde must be airless spray applied.

EQUIPMENT RECOMMENDATIONS

BRUSH/ROLLER: Touch up and spot priming only. Use a good quality synthetic bristle brush/ synthetic nap roller cover.

PAINT MITT: Use only for cable application. Published DFT must be met. Extra coats may need to be applied to reach recommended DFT.

AIR-ATOMIZED SPRAY: Not Recommended

AIRLESS SPRAY:

Fluid Pressure	Fluid Tip	Filter Mesh
2,500 psi (min)	0.013-0.017	60

Caution: Protect surrounding surfaces from over spray. Over spray can be wet or dry depending on height of work, weather, environmental conditions, and application equipment. Wet over spray can adhere to unwanted surfaces. Dry over spray may be removed by wiping or washing. Always clean dry over spray from hot surfaces before fusing occurs as surface temperatures can be higher than the air temperature.

THINNING

Normally not required. Thin 15-20% with clean fresh water when using as a prime coat on non-porous or smooth concrete or metal surfaces.

CLEAN-UP

Water. Use Krud Kutter PRO Cleaner Degreaser or soap and water if material begins to dry.

PERFORMANCE CHARACTERISTICS

ABRASION RESISTANCE

METHOD: ASTM D4060, CS-17 / 1,000 g / 1,000 cycles
RESULT: 29 mg loss (0.029 g)

IMPACT RESISTANCE

METHOD: ASTM D2794
RESULT: 160 inch pounds

FLEXIBILITY

METHOD: ASTM D522, Conical mandrel
RESULT: 48%

ADHESION, PULL OFF

METHOD: ASTM D4541
RESULT: 747 psi (5.2 MPa), 2 coats @ 7 mils each, SP-10
RESULT: 652 psi (4.5 MPa), 2 coats @ 7 mils each, WJ-4

CYCLIC WEATHERING, PROHESION

METHOD: ASTM D5894, 1,000 hours
RESULTS: 2 coats @ 7 mils each, SP-10
Blistering – 10 (none)
Spontaneous delamination – none
Visual scribe creep – 0.5 mm
RESULTS: 2 coats @ 7 mils each, SP-12 (WJ-4)
Blistering – 10 (none)
Spontaneous delamination – none
Visual scribe creep – <0.5 mm

MOIST SULFUR DIOXIDE RESISTANCE

METHOD: ASTM G87, 30 cycles
RESULT: No effect

100% RELATIVE HUMIDITY EXPOSURE

METHOD: ASTM D2247, 4,000 hours
RESULT: No effect

TECHNICAL DATA RO-212

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PHYSICAL PROPERTIES

		NOXYDE
Resin Type		Acrylic elastomeric
Pigment Types		Titanium Dioxide, Zinc Phosphate**
Solvents		Water
Weight	**Per Gallon**	10.1-11.1 lbs.
	Per Liter	1.20-1.35 kg
Solids	**Weight**	64 ± 3%
	Volume	55 ± 3%
Volatile Organic Compounds		<100 g/L (0.83 lbs./gal.)
Recommended Dry Film Thickness (DFT) per Coat		7.0 mils (150-175µ) minimum
Wet Film to Achieve DFT		12.0-14.0 mils (300-350µ)
Practical Coverage at Recommended DFT (assumes 15% material loss)		110 sq. ft./gal. (2.7 m^2/l)
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	**Tack Free**	1 hour
	Handle	2-4 hours
	Rain Resistant	3 hours
	Recoat	4 hours† with itself, 16 hours for other finish coats
	Full Cure	2 days
Dry Fall Properties		A minimum 8 foot drop is required to ensure overspray dries to a removable dust when applied at 77°F (25°C). Avoid overspray from depositing on metal surfaces above 120°F (49°C).
Elongation at 70°F (21°C)		200%
Dry Heat Resistance*		225°F (107°C)
Shelf Life		4 years in unopened containers properly stored in a cool dry area. Do not allow to freeze.
Safety Information	**Warning!**	PROTECT FROM FREEZING. MAY CAUSE EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. FOR INDUSTRIAL OR COMMERCIAL USE ONLY. SEE THE PRODUCT SAFETY DATA SHEET (SDS) AND LABEL WARNINGS FOR ADDITIONAL SAFETY INFORMATION.

* Prolonged or continuous exposure to temperatures below -30°F (-34°C) and above 175°F (80°C) will have an effect on the service life of the coating.
** Other pigments may be present depending on color. Black will have a different density.
† The published recoat time with itself of 4 hours is to cover the full ambient condition application range for the coating. Variations in recoat time with itself may be acceptable under certain and specific conditions. Contact your Rust-Oleum representative.

RUST-OLEUM
Rust-Oleum Corporation
11 Hawthorn Parkway
Vernon Hills, Illinois 60061
Phone: 877·385·8155
www.rustoleum.com/industrial

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