

NOXYDE[®]

DESCRIPTION AND USES

A single component, rust preventative water-based acrylic elastomeric coating.

This self priming, high build coating is designed for minimally prepared sound rusted or clean steel in mild to moderate industrial environments. Two coats are required. It can also be used on concrete, and the excellent elongation properties of 200% make it suitable for bridging small cracks. Noxyde is not recommended for exposure to most hydrocarbon solvents.

Noxyde is suitable for over-coating previous coating systems that are in good sound condition. It can also be used as an alternative to coating systems which require abrasive blast cleaning of the substrate prior to application. It has demonstrated comparable performance to zinc/epoxy coating system without the need to abrasive blast clean.

The Coatings Research Institute in Belgium has certified that Noxyde fulfills the requirements for a corrosivity class C5-M High as defined by ISO Standard 12944. This is a severe Marine Environment.

APPEARANCE

Satin

PRODUCTS

ltem #	Description	
201630	Off White	
201631	Blue Gray	
201632	Beige Gray	
201634	Reseda Green	
201638	White	
202541	Black	
202770	English Red	
210120	Brown	
261198	Blue	
261657	Gray Green	
261201	Gravel Gray	
261659	Moss Green	

PACKAGING

20-kg pails.

CONSUMPTION

One 20 Kg pail of Noxyde will cover approximately 470 sq. ft @ 7 mils (175µ) dry film thickness

RECOMMENDED PRIMERS

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

ltem #	Description
3202504	3200 System Clear Blue Undercoat
202600	Pegalink

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.

9800 System DTM Urethane Mastic 9700 System 250 VOC Acrylic Polyester Urethane 3700 System DTM Acrylic Enamel 3100 System Speedy-Dry DTM Acrylic Enamel 5200 System Industrial Choice™ DTM Acrylic 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 3599 Industrial Pure Strength® Cleaner/Degreaser, detergent, or other suitable cleaner. 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 by the use of High Pressure Water Cleaning (HP WC), minimum pressure 5,000 psi, in accordance to SSPC-SP WJ-4/NACE WJ-4 Light Cleaning.

PRIMING

Normally not required. Exceptions include: New galvanized steel: Prime with 3202 Clear Blue Undercoat. Smooth metals: Prime with Pegalink. Smooth concrete and existing coatings: Prime with Noxyde thinned 20% with fresh water. Apply a tack coat 1.5 mils (37.5μ) dry, 2.5 (62.5μ) wet.

APPLICATION

Apply only when air and surface temperatures are between 46-130°F (8-55°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, (350 μ).

THINNING

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

CLEAN UP

Water. Use 3599 Industrial Pure Strength Cleaner and Degreaser or soap and water if material begins to dry.



TECHNICAL DATA

NOXYDE[®]

EQUIPMENT RECOMMENDATIONS

BRUSH: Touch-up and spot priming only. Use a good quality synthetic bristle.

ROLLER: Use a good quality synthetic 1/2" nap roller cover.

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AIR ATOMIZED SPRAY: Not recommended

AIRLESS SPRAY:			
Fluid Pressure	Fluid Tip	Filte	er Mesh

2,500 psi (min) 0.013-0.017

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



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PHYSICAL PROPERTIES

Physical Properties		Noxyde	
Resin Type		Acrylic elastomeric	
Pigment Types		Titanium dioxide, zinc phoshate	
Solvents		Water	
Weight Per Gallon		1).0-10.5 lbs.	
	Per Liter	1.2-1.3 kg	
Solids by Weight		62±3%	
	Volume	55±3%	
Volatile Organic Compounds		15 g/l (0.125 lbs./gal.)	
Recommended Dry Fil Thickness (DFT) per C		7.0 mils (150-175µ) minimum	
Wet Film to Achieve DFT		12.0-14.0 mils (300-350µ)	
Theoretical Coverage at 1 mil (25µ) DFT		880 sq.ft./gal. (21.6 m²/l)	
Practical Coverage at Recommended DFT (assumes 15% material loss)		110 sq.ft./gal. (2.7 m²/gal.)	
Dry Times at 77°F	Tack Free	1 hour	
(25°C) and 50% Relative Humidity	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).	
Elasticity at 70°F (21°C	;)	200%	
Dry Heat Resistance*		225°F (107°C)	
Shelf Life	Shelf Life 4 years in unopened containers properly stored in a cool dry area		
	Flash Point	>200°F (93°C)	
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 MATERIAL SAFETY DATA SHEET (MSDS) AND LABEL WARNINGS FOR ADDITIONAL SAFETY INFORMATION.	

* Prolonged or continuous exposure to temperatures above 175°F (80°C) will have an effect on the service life of the coating.

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