RUST-OLEUM® HIGH PERFORMANCE®

STEEL-TECH™
STAINLESS STEEL POLYURETHANE COATING

DESCRIPTION AND USES

Steel-Tech™ is a high performance family of products made with stainless steel flake for superior protection.

Steel-Tech Polyurethane is an oil modified polyurethane with low odor and fast drying properties. It provides excellent protection against rust and corrosion. Steel-Tech Polyurethane can be applied direct to metal, however the use with an appropriate primer will optimize the coating system for best performance. Do not use on concrete, masonry, or galvanized steel.

Steel-Tech is formulated with stainless steel flake and some slight color variation is possible between batches.

Steel-Tech complies with USDS FSIS regulatory sanitation performance standards for food establishment facilities. This coating is impervious to moisture and easily cleaned and sanitized.

PRODUCTS

COATINGS

266820* Stainless Steel Polyurethane – 1-gallon

266822* Stainless Steel Polyurethane – 1-quart

APPEARANCE

Metallic Gray

COMPATIBLE PRIMERS*

769402 Red
1060402 Gray
1069402 Red
V769402 Red
V7086402 Gray
258887 White

* Not for use on galvanized steel or concrete

PRODUCT APPLICATION

SURFACE PREPARATION

ALL SURFACES: Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with 3599 Pure Strength® Cleaner/Degreaser or other suitable cleaner. Rinse with water and allow to thoroughly dry.

STEEL: Hand tool (SSPC-SP-2) or power tool (SSPC-SP-3) clean to remove loose rust, scale, and deteriorated previous coatings to obtain a sound rusted surface. For optimum corrosion resistance, abrasive blast to a commercial grade SSPC-SP-6, with a blast profile of 1-2 mils (25-50µ).

PREVIOUSLY COATED: Previously coated surfaces must be sound and in good condition. Smooth, hard, or glossy finishes should be scarified by sanding or sweep blasting to create a surface profile. The Steel-Tech System finishes are compatible with most coatings, but a test patch is suggested.

PRODUCT APPLICATION (cont.)

Apply when air and surface temperatures are between 32-100°F (0-38°C) and the surface temperature is at least 5°F (3°C) above the dew point.

EQUIPMENT RECOMMENDATIONS

(Comparable equipment also suitable).

BRUSH: Use a good quality natural or synthetic bristle brush.

ROLLER: Use a good quality lamb's wool or synthetic fiber (1/2" nap).

AIR-ATOMIZED SPRAY:

Method	Fluid Tip	Fluid Delivery	Atomizing Pressure
Pressure	0.055-0.070	10-16 oz./min.	25-60 psi
Siphon	0.055-0.070	—	25-60 psi
HVLP	0.043-0.070	8-10 oz./min.	10 psi (at tip)

AIRLESS SPRAY:

Fluid Pressure	Fluid Tip	Filter Mesh
1800-3000 psi	0.013-0.017	100

MIXING

Mix thoroughly to ensure any settled pigment is re-dispersed. Mix thoroughly for 2-3 minutes.

THINNING

Thinning is normally not required, except for air-atomized spray. For air-atomized spray application, thin only up to 10% by volume with 333402 Thinner or Acetone.

CLEAN-UP

When finished, wash tools and equipment with mineral spirits. Properly dispose of all soiled rags.

PERFORMANCE CHARACTERISTICS

POLYURETHANE

CONICAL FLEXIBILITY

METHOD: ASTM D522

RESULT: >33%

CYCLIC PROHESION

Rating 1-10, 10=best

METHOD: ASTM D5894, 266 hours

RESULT: ASTM D714 for blistering – 10 rating
ASTM D610 for corrosion – 10 rating
ASTM D7087 for creepage – 2 mm

IMPACT RESISTANCE (direct/reverse)

METHOD: ASTM D2794

RESULT: DIRECT - 24 in. lbs.
REVERSE – 8 in lbs.

RUST-OLEUM HIGH PERFORMANCE

TECHNICAL DATA

STEEL-TECH HIGH PERFORMANCE POLYURETHANE COATING

PHYSICAL PROPERTIES

Physical Properties		Steel-Tech™ Polyurethane
Resin Type		Oil modified Polyurethane
Pigment Type		Stainless Steel
Solvents		Mineral Spirits
Weight	Per Gallon	8.2 lbs.
	Per Liter	1.0 kg
Solids	By Weight	51.5-52.5%
	By volume	39.7-40.7%
Volatile Organic Compounds		<500 g/l (4.16 lbs./gal.)
Recommended Dry Film Thickness (DFT) per Coat		1.0-2.0 mils (25-50µ)
Wet Film to Achieve DFT (Unthinned material)		2.5-5.0 mils (62.5-125µ)
Theoretical Coverage at 1 mil DFT (25µ)		637-652 sq.ft./gal. (15.7-16.0 m^2/l)
Practical Coverage at Recommended DFT (assume 15% material loss)		275-550 sq.ft./gal. (6.8-13.5 m^2/l)
Dry Times at 70-80°F (21-27ºC) and 50% Relative Humidity	Tack Free	1.0-1.5 hours
	Handle	2.0-3.0 hours
	Recoat	24 hours
Shelf Life		5 Years
Dry Heat Resistance		212°F (100°C)
Safety Information	Warning!	FLAMMABLE LIQUID AND VAPOR. IF INHALED, CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE, OR NAUSEA. MAY CAUSE ALLERGIC SKIN REACTION. FOR INDUSTRIAL OR COMMERCIAL USE ONLY. REFER TO MATERIAL SAFETY DATA SHEET (MSDS) FOR ADDITIONAL INFORMATION.

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Form: CS1286
Rev.: 081213