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

MIXING

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

APPLICATION

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

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

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.

Form: GDH-1017
Rev.: 010416

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TECHNICAL DATA

STEEL-TECH STAINLESS STEEL POLYURETHANE COATING

PHYSICAL PROPERTIES

Physical Properties		STEEL-TECH STAINLESS STEEL 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		For additional information, see SDS