

RUST-OLEUM®

5200 SYSTEM DTM ACRYLIC PRIMER

DESCRIPTION AND USES

A fast-drying, low VOC, water-based acrylic copolymer primer for indoor or outdoor use in mild to moderate industrial environments. These rust inhibitive primers are designed for use on steel surfaces wherever a traditional oil-based enamel primer can be used, and dry to a matte finish. When topcoated with 5200 System DTM Acrylic, they offer excellent corrosion resistance, excellent resistance to weathering, and good resistance to mild chemical fumes and spills. Use two coats of primer on sound rusted or abrasive-blasted steel. Use 5269402 Red Primer, followed by 5281402 Gray Primer to help assure optimum hiding. Use 5281402 Gray Primer on galvanized steel.

PRODUCTS

1-Gallon	5-Gallon	Description
5269402	5269300	Red Primer
5281402	5281300	Gray

COMPANION PRODUCT

RECOMMENDED TOPCOAT

5200 System DTM Acrylic
(see corresponding Tech Data sheet CM-07)

COMPATIBLE TOPCOATS

CV740 System 100 VOC DTM Alkyd Enamel

PRODUCT APPLICATION

SURFACE PREPARATION

ALL SURFACES: Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with Krud Kutter® Cleaner Degreaser or other suitable cleaner. Mold and mildew must be cleaned with a chlorinated cleaner or bleach solution. Rinse thoroughly with fresh water and allow to fully dry. All surfaces must be dry at time of application.

STEEL: Hand tool (SSPC-SP-2) or power tool (SSPC-SP-3) clean to remove all loose rust, mill scale, and deteriorated previous coatings. Abrasive blasting to a minimum Commercial Grade (SSPC-SP-6, NACE 3) with a 1-2 mil (25-50µ) surface profile is recommended for optimal performance. Abrasive blast cleaned steel requires two coats of primer.

PRODUCT APPLICATION (cont.)

APPLICATION

Mix thoroughly. Apply only when air and surface temperatures are between 50-100°F (10-38°C), the relative humidity is no greater than 85%, and surface is at least 5°F (3°C) above dew point. Abrasive blast clean steel requires two coats of primer. Dry times may be effected by extremely high or low relative humidity.

EQUIPMENT RECOMMENDATIONS

BRUSH: Use good quality synthetic brush or short nap roller cover (¼-¾")

AIR-ATOMIZED SPRAY:

Method	Fluid Tip	Fluid Delivery	Atomization
Pressure	0.055-0.070	10-16 oz./min.	25-60 psi
Siphon	0.055-0.070	—	25-60 psi
HVLP (var.)	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

BRUSH/ROLLER: Thinning is not recommended.

AIR-ATOMIZED SPRAY: Water—up to 1 pint per gallon.

CLEAN UP

Use soap and water.

PERFORMANCE CHARACTERISTICS

PENCIL HARDNESS

METHOD: ASTM D3363

RESULT: 2B

CONICAL FLEXIBILITY

METHOD: ASTM D-522

RESULT: >33%

CYCLIC PROHESION

Rating 1-10, 10=best

METHOD: ASTM D5894, 2 Cycles, 672 hours

RESULT: Rating 10 per ASTM D714 for blistering

IMPACT RESISTANCE (direct/reverse)

METHOD: ASTM D-2794

RESULT: >160

TABER ABRASION

METHOD: ASTM D-4060 CS 17 wheels 500 gram load/1000 cycles

RESULT: 67 mg loss

For chemical and corrosion resistance see page 8-9 of the Rust-Oleum Industrial Brands Catalog Form #275585.

**TECHNICAL DATA****5200 SYSTEM DTM ACRYLIC PRIMER****PHYSICAL PROPERTIES**

Resin Type		Acrylic Copolymer Dispersion
Pigment Type		Titanium Dioxide, Red Iron Oxide, Zinc Phosphate, Calcium Carbonate
Solvents		Water, Methyl Carbitol, Propylene Glycol
Weight	Per Gallon	10.1 lbs.
	Per Liter	1.2 kg
Solids	By Weight	49-50%
	By Volume	38-39%
Volatile Organic Compounds		<250 g/. (2.08 lbs./gal.)
Recommended Dry Film Thickness (DFT) Per Coat		2.0-3.0 mils (50-75 μ)
Wet Film to Achieve DFT		5.0-9.0 mils (125-225 μ)
Theoretical Coverage at 1 mil DFT (25μ)		610-625 sq. ft./gal. (14.5-14.9 m ² /l)
Practical Coverage at Recommended DFT (assumes 15% material loss)		250-350 sq. ft./gal. (5.9-8.3 m ² /l)
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	Tack-free	1-2 hours
	Handle	2-4 hours
	Recoat	1-3 hours
Dry Heat Resistance		200°F (93°C)
Shelf Life		5 years (protect from freezing)
Safety Information		For additional information, see SDS

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

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