

5200 SYSTEM
DTM ACRYLIC

DESCRIPTION AND USES

Rust-Oleum® 5200 System is a low VOC, water-based acrylic copolymer enamel finish. These finishes are intended for indoor or outdoor use on properly prepared surfaces in mild to moderate industrial environments. They are an excellent alternative to traditional solvent-based alkyd enamels when solvent fumes cannot be tolerated.

Available in 23 high gloss premix colors and an aluminum finish. There are also 2 flat and 2 semi-gloss selected premix colors. Tint bases are available in high gloss, semi-gloss, and flat finishes and use the Rust-Oleum water-based colorants.

The 5258402 Tower Orange and 5291402 Tower White are flat finishes matching the color standards established by the FAA for towers, tanks, stacks, and other elevated structures which may pose as an obstruction to aircraft.

This product complies with USDA FSIS regulatory sanitation performance standards for food establishment facilities. This coating is impervious to moisture and easily cleaned and sanitized.

PRODUCTS

HIGH GLOSS PREMIX FINISHES

1-Gallon	5-Gallon	Description
5222402	--	Marlin Blue
5225402	5225300 [†]	Safety Blue
5227402	--	National Blue
5233402	--	Safety Green
5234402	5234300 [†]	Green (John Deere)
5235402	5235300 [†]	Vista Green
5237402	5237300 [†]	Forest Green
5256402	--	International Orange
5258402	5258300	Tower Orange
5271402	5271300	Dunes Tan
5275402	--	Bronzetone
5277402	5277300 [†]	Chestnut Brown
5279402	--	Gloss Black
5282402	5282300	Silver Gray
5286402	5286300 [†]	Navy Gray
5288402	--	Machine Tool Gray
5291402	5291300	Tower White
5292402	5292300	Gloss White
5215402*	5215300 [†]	Alumi-Non
5244402	--	Safety Yellow
5255402	5255300 [†]	Safety Orange
5264402	5264300 [†]	Safety Red
5265402	--	Fire Hydrant Red

This product system has been approved per MPI specification #15. Visit paintinfo.com for details.

PRODUCTS (cont.)

SEMI GLOSS PREMIX FINISHES

1-Gallon 5-Gallon Description

5293402 5293300 Semi-Gloss White
 5274402 5274300[†] Semi-Gloss Black

FLAT PREMIX COLORS

1-Gallon 5-Gallon Description

5278402 Flat Black
 5290402 Flat White

TINT BASES (HIGH GLOSS, SEMI GLOSS & FLAT FINISHES)

1-Gallon	5-Gallon	Description
5207411	5207391	Masstone Gloss
5208418	5208394	Deep Gloss
5209417	5209397	Light Gloss
5217411	5217391	Masstone Semi-Gloss
5218418	5218394	Deep Semi-Gloss
5219417	5219397	Light Semi-Gloss
5211411	--	Masstone Flat
5212418	--	Deep Flat
5213417	--	Light Flat

The tint bases use the Rust-Oleum Water-Based Colorants.

[†] Made to Order only. Contact Rust-Oleum Customer Service for details.

* For spray application only. For optimum hiding, use two or more coats.

COMPANION PRODUCTS

PRIMERS

1-Gallon 5-Gallon Description

5269402 5269300 Red Primer
 5281402 5281300 Gray Primer

ADDITIVE

1-Gallon 5-Gallon Description

206201** Acrylic Hardener

**This additive improves the early block and mar resistance of the finish, but does not increase final film hardness.

TECHNICAL DATA

5200 SYSTEM DTM ACRYLIC

PRODUCT APPLICATION

SURFACE PREPARATION

ALL SURFACES: Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with Pure Strength Cleaner/Degreaser item #3599402, commercial detergent 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 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 (25-50 μ) surface profile is recommended for optimal performance. Abrasive blast cleaned steel requires two coats.

CONCRETE AND MASONRY: Hand or power tool clean to remove all loose or unsound concrete, masonry, or previous coating. Very dense, non-porous concrete should be acid etched or abrasive blasted to remove the laitance layer and create a surface profile. Allow new concrete to cure for 30 days before coating.

PREVIOUSLY COATED: Previously coated surfaces must be sound and in good condition. Smooth, hard, or glossy finishes should be scarified by sanding to create a surface profile. The Industrial Choice DTM Acrylic Finish is compatible with most coatings, but a test patch is suggested.

APPLICATION

Apply only when the air and surface temperatures are between 50-100°F (10-38°C) and the surface temperature is at least 5°F (3°C) above the dew point. The relative humidity should not be greater than 85%. Extremely high or low relative humidity can effect dry times and the final gloss of the coating. Iron oxide staining may occur with some colors if surface and air temperature are below 60°F (16°C) or the relative humidity is above 70% during the time of application. For optimum performance use a primer. For optimum hiding, additional coats of 5215 Alumni-Non may be required over dark colors.

PRODUCT APPLICATION (cont.)

EQUIPMENT RECOMMENDATIONS

BRUSH: Use good quality synthetic brush or short nap roller cover (1/4-3/8")

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

PHYSICAL PROPERTIES

		PREMIX COLORS	GLOSS/SEMI-GLOSS TINT	FLAT TINT BASES
Resin Type		Acrylic Copolymer Dispersion	Acrylic Copolymer Dispersion	Acrylic Copolymer Dispersion
Pigment Type		Varies depending on color	Varies depending on color	Varies depending on color
Solvents		Water and Methyl Carbitol	Water and Methyl Carbitol	Water and Methyl Carbitol
Weight	Per Gallon	8.7-10.0 lbs.	8.5-9.9 lbs.	9.6-11.1 lbs.
	Per Liter	1.04-1.20 kg	1.02-1.18 kg	1.15-1.33 kg
Solids	By Weight	36-49%	35-45%	45-53%
	By Volume	34-38%	33-35%	36-38%
Volatile Organic Compounds		<250 g/l (2.08 lbs./gal.)	<250 g/l (2.08 lbs./gal.)	<250 g/l (2.08 lbs./gal.)
Recommended Dry Film Thickness (DFT) Per Coat		2.0-3.0 mils (50-75 μ)	2.0-3.0 mils (50-75 μ)	2.0-3.0 mils (50-75 μ)
Wet Film to Achieve DFT		5.0-9.0 mils (125-225 μ)	5.0-9.0 mils (125-225 μ)	5.0-9.0 mils (125-225 μ)
Theoretical Coverage at 1 mil DFT (25μ)		545-610 sq.ft./gal. (13.4-15.0 m ² /l)	530-560 sq.ft./gal. (13.0-13.8 m ² /l)	580-610 sq.ft./gal. (14.3-15.0 m ² /l)
Practical Coverage at Recommended DFT (assumes 15% material loss)		150-260 sq.ft./gal. (3.7-6.4 m ² /l)	150-240 sq.ft./gal. (3.7-5.9 m ² /l)	160-260 sq.ft./gal. (3.9-6.4 m ² /l)
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	Tack-free	1-2 hours	1-2 hours	1-2 hours
	Handle	2-4 hours	2-4 hours	2-4 hours
	Recoat	1-3 hours	1-3 hours	1-3 hours
Dry Heat Resistance		200°F (93°C)	200°F (93°C)	200°F (93°C)
Shelf Life		5 years, protect from freezing	5 years, protect from freezing	5 years, protect from freezing
Safety Information		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.		

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

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