



RUST-OLEUM®
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.

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.

MPI #15, #153, #161, #164 Certified. Refer to the MPI website for the most current listing of MPI certified products.

PRODUCTS

GLOSS FINISH

1-Gallon	5-Gallon	DESCRIPTION
5222402	-----	Marlin Blue
5225402	-----	Safety Blue
5227402	-----	National Blue
5233402	-----	Safety Green
5234402	-----	Green (John Deere)
5235402	-----	Vista Green
5237402	-----	Forest Green
5256402	-----	International Orange
5271402	5271300	Dunes Tan
5277402	-----	Chestnut Brown
5279402	-----	Black
5282402	5282300	Silver Gray
5286402	5286300†	Navy Gray
5288402	-----	Machine Tool Gray
5292402	5292300†	White
5215402*	-----	Alumi-Non
5244402	286905	Safety Yellow
5255402	5255300†	Safety Orange
5264402	286904	Safety Red
5265402	-----	Fire Hydrant Red

GLOSS FINISH TINT BASES

1-Gallon	5-Gallon	DESCRIPTION
5207411	5207391	Masstone
5208418	5208394	Deep
5209417	5209397	Light

PRODUCTS (cont.)

SATIN FINISH

1-Gallon	5-Gallon	DESCRIPTION
285057	285058	Safety Yellow
285059	285060	Safety Red
285062	285063	Safety Blue
285066	285068	Safety Orange
285069	285071	Safety Green

SEMI GLOSS FINISH

1-Gallon	5-Gallon	DESCRIPTION
5293402	5293300	Semi-Gloss White
5274402	286903	Semi-Gloss Black

EGGSHELL FINISH

1-Gallon	5-Gallon	DESCRIPTION
5278402	286901	Black
5290402	286902	White
5258402	5258300	Tower Orange
5291402	5291300	Tower White
5275402	-----	Bronzetone

EGGSHELL FINISH TINT BASES

1-Gallon	5-Gallon	DESCRIPTION
5211411	286919	Masstone
5212418	286925	Deep
5213417	286930	Light

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.

TINT BASE MAXIMUM COLORANT PER GALLON

QUANTITY	DESCRIPTION
12 Oz.	Masstone
8 Oz.	Deep
4 Oz.	Light

COMPANION PRODUCTS

PRIMERS – EGGSHELL FINISH

1-Gallon	5-Gallon	DESCRIPTION
5269402	-----	Red
5281402	5281300	Gray



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PRODUCT APPLICATION

SURFACE PREPARATION

ALL SURFACES: Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with Krud Kutter® Original Cleaner Degreaser, 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 5200 System 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.

EQUIPMENT RECOMMENDATIONS

(Comparable equipment also suitable)
BRUSH: Use a good quality synthetic bristle brush.
ROLLER: Use a good quality short nap synthetic fiber roller cover (1/4-3/8")

AIR-ATOMIZED SPRAY

Method	Fluid Tip	Fluid Delivery	Atomized Pressure
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)

PRODUCT APPLICATION (cont.)

EQUIPMENT RECOMMENDATIONS (cont.)

AIRLESS SPRAY

Fluid Pressure	Fluid Tip	Filter Mesh
1,800-3,000 psi	0.013-0.017	100

CAUTION: Protect surrounding surfaces from over spray. Over spray can be wet or dry depending on height of work, weather, environmental conditions and application equipment. Wet over spray can adhere to unwanted surfaces. Dry over spray may be removed by wiping or washing. Always clean dry over spray from hot surfaces before fusing occurs as surface temperatures can be higher than the air temperature.

THINNING

BRUSH/ROLLER: Thinning is not recommended
AIR ATOMIZED SPRAY: Up to 1 pint per gallon.

CLEAN-UP

Soap and water.

PERFORMANCE CHARACTERISTICS

PENCIL HARDNESS

METHOD: ASTM D3363 (1 week cure)
RESULT: 2B

CONICAL FLEXIBILITY

METHOD: ASTM D522
RESULT: >33%

CYCLIC PROHESION

Rating 1-10, 10=best
METHOD: ASTM D5894, 2 Cycles, 672 hours
RATING: Rating 10 per ASTM D714 for blistering
METHOD: ASTM D1654 (Scribe Creep)

IMPACT RESISTANCE (Direct/Reverse)

METHOD: ASTM D2794
RESULT: >160

TABER ABRASION

METHOD: ASTM D4060 CS 17 wheels 500 gram load/1000 cycles
RESULT: 67mg loss

60° GLOSS

METHOD: ASTM D2243
RESULT: Gloss: 10-100
 Semi-Gloss: 35-55
 Satin: 10-20
 Eggshell: 5-15

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

ACRYLIC	TECHNICAL DATA	CM-07
<small>• TRUSTED QUALITY SINCE 1921 •</small> RUST-OLEUM® COMMERCIAL <small>INDUSTRIAL COATINGS</small>	RUST-OLEUM® 5200 SYSTEM DTM ACRYLIC	

PHYSICAL PROPERTIES

		PREMIX COLORS	PREMIX SATIN	GLOSS/SEMI-GLOSS TINT BASES	EGGSHELL TINT BASES
Resin Type		Acrylic Copolymer			
Pigment Type		Varies with color			
Solvents		Water and Methyl Carbitol			
Weight	Per Gallon	8.7-10.0 lbs.	9.7-10.4 lbs.	8.5-9.9 lbs.	9.6-11.1 lbs.
	Per Liter	1.04-1.20 kg	1.16-1.24 kg	1.02-1.18 kg	1.15-1.33 kg
Solids	By Weight	36-49%	46.4-50.3%	35-45%	45-53%
	By Volume	34-38%	36.3-38.3%	33-35%	36-38%
Volatile Organic Compounds		<250 g/l (2.08 lbs./gal.)	<220 g/l (1.83 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 (50-75μ)	2.0-3.0 mils (50-75μ)	2.0-3.0 mils (50-75μ)	2.0-3.0 mils (50-75μ)
Wet Film to Achieve DFT		5.0-9.0 mils (125-225μ)	5.0-8.0 mils (125-200μ)	5.0-9.0 mils (125-225μ)	5.0-9.0 mils (125-225μ)
Theoretical Coverage at 1 mil DFT (25μ)		545-610 sq. ft./gal. (13.4-15.0 m ² /l)	582-625 sq. ft./gal. (14.3-15.4 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)	165-260 sq. ft./gal. (4.0-6.4 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	1-2 hours
	Handle	2-4 hours	2-4 hours	2-4 hours	2-4 hours
	Recoat	1-3 hours	1-3 hours	1-3 hours	1-3 hours
Dry Heat Resistance		200°F (93°C)			
Shelf Life		5 years, protect from freezing			
Safety Information		For additional information, see MSDS			

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

The technical data and suggestions for use contained herein are correct to the best of our knowledge, and offered in good faith. The statements of this literature do not constitute a warranty, express, or implied, as to the performance of these products. As conditions and use of our materials are beyond our control, we can guarantee these products only to conform to our standards of quality, and our liability, if any, will be limited to replacement of defective materials. All technical information is subject to change without notice.