INDUSTRIAL CHOICE® BY RUST-OLEUM®

5200 SYSTEM DTM ACRYLIC

DESCRIPTION AND USES

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 can not be tolerated.

Available in 23 high gloss premix colors and an aluminum. There are also 2 flat and 2 semi-gloss selected pre-mix 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.

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.

Form: 2039990
Rev.: 110811

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. Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause adverse effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH-approved) and proper containment and cleanup. For additional information, contact the U.S.EPA/Lead Information Hotline at 1-800-424-LEAD.

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/ROLLER: Use a good quality synthetic brush or short nap roller cover (1/4-1/2”). Brush and roller application of 5215 Alumi-Non is for touch-up use only.

AIR-ATOMIZED SPRAY:

Method	Fluid Tip	Fluid Delivery	Atom. 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

AIRLESS SPRAY:

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

THINNING

BRUSH/ROLLER: No thinning is needed.

AIR-ATOMIZED SPRAY: Water—up to 12% (1 Pint Per Gallon).

AIRLESS SPRAY: Water—up to 6% (1/2 Pint Per Gallon).

CLEAN UP

Use soap and water.

PERFORMANCE CHARACTERISTICS

PENCIL HARDNESS

METHOD: ASTM D3363

RESULT: B

CONICAL FLEXIBILITY

METHOD: ASTM D522

RESULT: >33%

CYCLIC PROHESION

Rating 1-10, 10=best

METHOD: ASTM D5894, 2 Cycles, 672 hours

RESULT: Rating 10 per ASTM D714 for blistering

RESULT: Rating 9 per ASTM D1654 for corrosion

IMPACT RESISTANCE (direct/reverse)

METHOD: ASTM D2794

RESULT: >160/>160

TABER ABRASION

METHOD: ASTM D4060 CS 17 wheels 500g load/1000 cycles

RESULT: 57 mg loss

GLOSS (60°)

METHOD: ASTM D4587 (450 hours)

RESULT: 82% (color–black), semi-gloss bases:35-55%, flat bases:10-15%

ACCELERATED WEATHERING (% gloss retention)

METHOD: ASTM D4587, QUV Type A bulb, 450 hours

RESULT: 92% retention (color–black)

INDUSTRIAL CHOICE BY RUST-OLEUM

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	Varies	Varies
Solvents		Water and Methyl Carbitol	Water and Methyl Carbitol	Water and Methyl Carbitol
Weight	**Per Gallon**	8.7-10 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.)
pH		8.0-9.0	8.0-9.0	8.0-9.0
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)
Wet Film to Achieve DFT		5-9 mils (125-225µ)	5-9 mils (125-225µ)	5-9 mils (125-225µ)
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% rel. hum.	**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
Specifications and Performance Alternatives		Can be used in USDA-regulated facilities based on FSIS Directive 11,000.4 (Rev.4) November 24,1995. Agriculture Canada accepted.		
Safety Information	**Contains**	No lead deliberately added.	No lead deliberately added.	No lead deliberately added.
	Warning!	**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.**		

RUST-OLEUM® INDUSTRIAL BRANDS

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