

ROCALKYD DIRECT TO METAL ALKYD ENAMEL 7400

DESCRIPTION AND USES

ROCAlkyd Direct-To-Metal Alkyd Enamel 7400 is Rust-Oleum's original rust preventive coatings for interior or exterior use. This product provides chemical and abrasion resistance for metal surfaces anywhere a smooth, hard. durable finish is desired, and corrosion protective performance is required. Available in flat, semi-gloss, and high gloss finishes. Not for use on galvanized steel.

If desired, the ROCAlkyd Direct-To-Metal Alkyd Enamel 7400 can be applied direct-to-metal (DTM), however optimal corrosion protection is achieved when the finish coat is used in conjunction with one of the recommended primers. See Two-Year Rust Proof Guarantee Form on this product's web

The ROCAlkyd Direct-To-Metal Alkyd Enamel 7400 complies with USDA FSIS regulatory sanitation performance standards for food establishment facilities. This coating is impervious to moisture and easily cleaned and sanitized.

MPI #9, #48, #81, #96 Certified. Refer to the MPI website for the most current listing of MPI certified products.

PRODUCT FEATURES AND BENEFITS

- Easy to Apply, High Hide Formula
- Hard, Durable, Chemical and Abrasion Resistant
- Ultra-Smooth Finish That Resists Chipping, Fading and Weathering
- Excellent Adhesion Over Minimally Prepared Surfaces
- Dries Tack Free in 2 to 4 Hours
- Can be Applied in Temperatures as Low as 32°F
- Two-Year Rust-Proof Guarantee*

PRODUCTS

HIGH GLOSS & GLOSS FINISHES

1-Gallon	5-Gallon	DESCRIPTION
634402	634300	High Gloss Black
865402		Dunes Tan
904402		Machine Tool Gray
906402		Silver Gray
925402	925300	Safety Blue
933402		Safety Green
944402	944300	Safety Yellow
956402		Safety Orange
964402		Safety Red
975402	975300	Navy Gray
977402		Chestnut Brown
1282402		Forest Green
2766402	2766300	High Gloss White

PRODUCTS (cont.)

SEMI-GLOSS FINISHES 1-Gallon **DESCRIPTION** 7290402 Semi-Gloss White

FLAT FINISHES

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1-Gallon	DESCRIPTION	
412402	Flat Black	
2764402	Flat White	

COMPANION PRODUCTS

358063	ROCPrime WB Hybrid 1K Epoxy Gray Primer
302140	Universal Alkyd White Primer
330142	Universal Alkyd Gray Primer
330143	Universal Alkyd Red Primer
239503	ROCAlkyd Alkyd Accelerator (refer to Application section on this TDS for more information)
333402	Professional Solutions Acetone Thinner
633402	Professional Solutions Mineral Spirits Thinner

RUST PROOF GUARANTEE*

*Submitting the Two-Year Rust-Proof Guarantee form located on the ROCAlkyd Direct-To-Metal Alkyd Enamel 7400 web page completely filled out, signed and with proof of purchase attached, no later than 30 days after project completion for projects using up to 50 gallons is required to qualify for the rust-proof guarantee. For projects larger than 50 gallons, please contact Rust-Oleum Technical Service Department at: Rust-Oleum Technical Service Department, 11 Hawthorn Pkwy, Vernon Hills, IL 60061, or email to: technicalservice@rustoleum.com

PRODUCT APPLICATION

SURFACE PREPARATION

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ALL SURFACES: (SSPC-SP-1) Remove all dirt, grease, oil, salt, and chemical contaminants by washing the surface with Krud Kutter® PRO Cleaner Degreaser. Mold and mildew must be cleaned with Krud Kutter PRO One Step Cleaner & Disinfectant. 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 mils (25-50µ) surface profile is recommended for optimal performance. Abrasive blast cleaned steel requires two coats of primer. See the primer Technical Data Sheet for more information.

Form: EJ-67

Rev.: 031824



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PRODUCT APPLICATION (cont.)

SURFACE PREPARATION (cont.)

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 ROCAlkyd Direct-To-Metal Alkyd Enamel 7400 is compatible with most coatings, but a test patch is suggested.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust, LEAD IS TOXIC, EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-Approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

APPLICATION

Apply only when the 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. Abrasive blast clean steel requires two coats of primer.

OPTIONAL: For accelerated dry time and increased film hardness, use ROCAlkyd Alkyd Accelerator up to 4 oz. per gallon. Add the ROCAlkyd Alkyd Accelerator just prior to application of the coating. Mix well. Exceeding the recommended amount will not further enhance benefits. Apply the coating in the normal and recommended manner. Paint that is mixed with the ROCAlkyd Alkyd Accelerator must be applied in 1-2 hours. Please refer to ROCAlkyd Alkyd Accelerator TDS for more information.

EQUIPMENT RECOMMENDATIONS

(Comparable equipment also suitable)

BRUSH: Use a good quality natural or synthetic bristle

ROLLER: Use a good quality lamb's wool or synthetic fiber.

AIR-ATOMIZED SPRAY

			Atomized
Method	Fluid Tip	Fluid Delivery	Pressure
Pressure	0.055-0.070	16 oz./min.	25-60 psi
Siphon	0.055-0.070		25-60 psi
HVLP (var.)	0.043-0.070	8-14 oz./min.	60-90 psi*

*10 psi max. at tip

AIRLESS SPRAY

SHEEN	Fluid Pressure	Fluid Tip	Filter Mesh
High Gloss	1,600-2,400 psi	0.013-0.017	100
All Others	1,600-2,400 psi	0.013-0.019	60

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.

PRODUCT APPLICATION (cont.)

THINNING

BRUSH/ROLLER: Normally not required.

AIR ATOMIZED SPRAY: Professional Solutions Acetone

Thinner: Use up to 15% by volume.

AIRLESS SPRAY: Professional Solutions Acetone Thinner: Normally not required. If needed use up to 5% by volume.

CLEAN UP

Professional Solutions Mineral Spirits Thinner.

PERFORMANCE CHARACTERISTICS

PENCIL HARDNESS

METHOD: ASTM D3363

RESULT: 5B

GLOSS AT 60°

METHOD: ASTM D523

RESULT: High Gloss Finishes 85-100 degrees Semi-Gloss Finishes 40-65 degrees

CYCLIC PROHESION

Rating 1-10, 10=best

METHOD: ASTM D5894 3 cycles, 1008 hours RESULT: 10 ASTM D714 for blistering RESULT: 9 ASTM D610 for rusting

IMPACT RESISTANCE (direct)

METHOD: ASTM D-2794

RESULT: >160

ACCELERATED WEATHERING (% gloss retention)

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

RESULT: 84% Gloss Retention (color-black)

TABER ABRASION

METHOD: ASTM D4060 CS17 wheels 500g load/1000

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RESULT: 61.6 mg loss

For chemical and corrosion resistance, see the Rust-Oleum Industrial Brands Catalog

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PHYSICAL PROPERTIES

		HIGH GLOSS & GLOSS	SEMI-GLOSS	FLAT
Resin Type		Modified Alkyd	Modified Alkyd	Modified Alkyd
Pigment Type		Varies with color	Varies with color	412402 Carbon Black 2764402 Titanium Dioxide
Solvents		Aliphatic Hydrocarbons	Aliphatic Hydrocarbons	Aliphatic Hydrocarbons
Weight	Per Gallon	7.6-8.9 lbs.	9.5-10.2 lbs.	11.2-11.4 lbs.
Weight	Per Liter	0.9-1.1 kg	1.1-1.2 kg	1.3-1.4 kg
Solids	By Weight	51-59%	61-65%	70-71%
Solius	By Volume	42-43%	43-45%	47-48%
Volatile Organic Compounds		<450 g/l (3.75 lbs./gal.)	<450 g/l (3.75 lbs./gal.)	<450 g/l (3.75 lbs./gal.)
Recommended Dry Film Thickness (DFT) Per Coat		1.5-2.5 mils (37.5-62.5µ)	1.5-2.5 mils (37.5-62.5µ)	1.5-2.5 mils (37.5-62.5μ)
Wet Film to Achieve DFT (unthinned material)		3.5-6.0 mils (87.5-150µ)	3.5-6.0 mils (87.5-150µ)	3.0-5.5 mils (75-137.5µ)
Theoretical Coverage at 1 mil DFT (25µ)		675-690 sq. ft./gal. (16.6-17.0 m²/l)	690-720 sq. ft./gal. (17.0-17.8 m²/l)	755-770 sq. ft./gal. (18.5-18.9 m²/l)
Practical Coverage at Recommended DFT (assumes 15% material loss)		230-390 sq. ft./gal. (5.7-9.6 m²/l)	235-410 sq. ft./gal. (5.8-10.1 m²/l)	255-435 sq. ft./gal. (6.3-10.7 m²/l)
Dry Times at	Tack-free	2-4 hours	2-4 hours	2-4 hours
70-80°F (21-27°C) and 50% Relative Humidity	Handle	5-9 hours	5-9 hours	5-9 hours
	Recoat	24 hours	24 hours	24 hours
Dry Heat Resistance		212°F (100°C)	212°F (100°C)	212°F (100°C)
Shelf Life		5 years	5 years	5 years
Safety Information		For additional information, see SDS		

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.



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