RUST-OLEUM® HIGH PERFORMANCE

ROCALKYD HIGH HEAT COATINGS

DESCRIPTION AND USES

ROCAlkyd High Heat Coatings offer three levels of heat protection and will withstand continuous exposure to the temperatures in their posted range. General Purpose is designed for surfaces exposed to temperatures up to 400°F. Heavy Duty is designed for surfaces exposed to temperatures up to 800°F. High-Performance offers the highest level of heat protection for surfaces exposed to temperatures up to 1200°F. These products are self-priming and can be applied directly to metal and properly prepared previously coated surfaces.

MPI #22 Certified. Refer to the MPI website for the most current listing of MPI certified products.

PRODUCT FEATURES AND BENEFITS

- Withstands Temperatures up to 400°F, 800°F and 1200°F
- Self-Priming, Direct-to-Metal Application
- Available in Flat Black or Aluminum Finishes
- Can be applied in temperatures as low as 32°F
- Dries in as Little as 1 Hour
- VOC Compliant Nationwide
- Two-Year Rust-Proof Guarantee*

PRODUCTS

SKU	DESCRIPTION (1-Gallon)
286501	High Heat GP Aluminum (400°F)
286503	High Heat GP Black (400°F)
286507	High Heat HD Aluminum (800°F)
286509	High Heat HD Black (800°F)
286510	High Heat HP Aluminum (1200°F)
286512	High Heat HP Black (1200°F)

*RUST PROOF GUARANTEE

Submitting the Two-Year Rust-Proof Guarantee form located on the **ROC**Alkyd High Heat Coatings 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

ALL SURFACES: 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.

PRODUCT APPLICATION (cont.)

SURFACE PREPARATION (cont.)

STEEL: Remove all loose rust, mill scale and existing coatings. Abrasive blast clean to a minimum SSPC-SP-6 Commercial Grade (NACE 3) to achieve a 1-2 mil surface profile. Abrasive blast cleaned surfaces require two coats. If abrasive blast cleaning is not possible, remove all rust, scale, and deteriorated previous coatings in accordance with either SSPC-SP-2 Hand Tool Cleaning or SSPC-SP-3 Power Tool Cleaning. Steel surfaces must be clean and dry prior to coating application. Two coats are required.

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 air and surface temperatures are between 32-125°F (0-52°C) and surface temperature is at least 5°F above dew point. This coating can be applied by brush, roller, or spray.

EQUIPMENT RECOMMENDATIONS

(Comparable equipment also suitable)
BRUSH: Use a good quality natural or synthetic bristle brush.
ROLLER: Use good quality natural or synthetic cover.

AIR–ATOMIZED SPRAY

Method	Fluid Tip	Fluid Delivery	Atomized Pressure
Pressure	0.055-0.070	16 oz./min.	40-60 psi
Siphon	0.055-0.070	--	40-60 psi
HVLP (var.)	0.043-0.070	8-14 oz./min.	10 psi (at tip)

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: Normally not required. Use 5-10% 315512 VOC Complaint Thinner if needed (approximately ½ pint per gallon).

AIR-ATOMIZED SPRAY: Use 10-20% 315512 VOC compliant thinner or as needed (approximately 1½ pints per gallon).

CLEAN-UP

Clean up with 315512 VOC compliant thinner.

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PHYSICAL PROPERTIES

		GENERAL PURPOSE	HEAVY DUTY	HIGH PERFORMANCE
Resin Type		Silicone Alkyd	Silicone Alkyd	Polysiloxane Polymer
Pigment Type		Ceramic Black, Aluminum Flake		
Solvents		Parachlorobenzotrifluoride, Mineral Spirits	Parachlorobenzotrifluoride, Mineral Spirits	Parachlorobenzotrifluoride, Xylene
Weight	**Per Gallon**	9.34-9.50 lbs.	10.8-11.1 lbs.	10.5-11.8 lbs.
	Per Liter	1.12-1.14 kg	1.29-1.33 kg	1.26-1.41 kg
Solids	**By Weight**	43.8-51.2%	40.5-53.5%	46.8-55.7%
	By Volume	36.8-39.5%	28.0-37.8%	37.6-41.1%
Volatile Organic Compounds		<420 g/l (3.50 lbs./gal.)		
Recommended Dry Film Thickness (DFT) Per Coat		1.0-2.0 mils (25-50µ)		
Wet Film to Achieve DFT		2.5-5.5 mils (62.5-112.5µ)	2.5-7.0 mils (37.5-175µ)	2.5-5.5 mils (62.5-137.5µ)
Practical Coverage at Recommended DFT (assumes 15% material loss)		250-540 sq. ft./gal. (6.2-13.3 m^2/l)	190-515 sq. ft./gal. (4.7-12.7 m^2/l)	250-560 sq. ft./gal. (6.2-13.8 m^2/l)
Dry Times at 77°F (25°C) and 50% Relative Humidity	**Handle**	1-2 hours	1-2 hours	1-2 hours
	Recoat	8-24 hours	8-24 hours	8-24 hours
Force Cure		None	After 24 hours drying, raise the surface temperature to a minimum of 300°F for one hour.	Each coat requires one hour cure at 450°F
Dry Heat Resistance		400°F (204°C)	800°F (426°C)	1200°F (648°C)
Shelf Life		5 years		
Safety Information		**COMBUSTIBLE. CONTAINS PETROLEUM DISTILLATES. HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. SEE THE PRODUCT SAFETY DATA SHEET (SDS) AND LABEL WARNINGS FOR ADDITIONAL SAFETY INFORMATION.**		

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

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