



HIGH HEAT COATING

DESCRIPTION AND USES

Rust-Oleum® High Heat Coatings offer three levels of protection based on temperature range. These coatings will withstand continuous exposure to the temperatures in their posted range. General Purpose High Heat Coatings are designed for surfaces exposed to temperatures up to 400°F. Heavy Duty High Heat Coatings are designed for surfaces exposed to temperatures up to 800°F. High Performance High Heat Coatings offer the highest level of performance for surfaces exposed to temperatures up to 1200°F. Each level of protection is offered in black or aluminum.

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

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)

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 or other suitable cleaner and water. Rinse thoroughly with fresh water and allow to fully dry. All surfaces must be dry at time of application.

STEEL: Remove loose rust, mill scale and deteriorated coatings.

UNCOATED STEEL: 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 to 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.

PREVIOUSLY COATED: Previously coated surfaces must be removed to bare metal. Two coats are required.

PRODUCT APPLICATION (cont.)

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)

AIRLESS SPRAY

Fluid Pressure	Fluid Tip	Filter Mesh
2,100-2,800 psi	0.019-0.023	60

THINNING

BRUSH/ROLLER: Normally not required. Use 5-10% VOC compliant thinner if needed (approximately ½ pint per gallon).

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

AIRLESS SPRAY: Normally not required. Use 5-10% VOC compliant thinner if needed (approximately ½ pint per gallon).

CLEAN-UP

Clean up with VOC compliant thinner.

HIGH HEAT	TECHNICAL DATA	RO-125
RUST-OLEUM HIGH PERFORMANCE INDUSTRIAL COATINGS	HIGH HEAT COATING	

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.

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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