

Aremco HiE-Coat™ 840-MS High Emissivity Silicone-Ceramic Coating

Category : Ceramic , Polymer , Thermoset , Silicone

Material Notes:

840-C is a silicone-ceramic, black-pigmented coating for aluminum, brass, copper, and carbon and stainless steels to 1100 °F (593 °C). The HiE-Coat™ line of high emissivity coatings are black-body formulations designed to significantly improve the thermal efficiency of infrared heaters, furnaces, incinerators, and ovens used throughout the appliance, ceramics, chemical processing, metallurgical, and refining industries. Natural gas and oil savings in the range of 5–10% are typical using these coatings.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-HiE-Coat-840-MS-High-Emissivity-Silicone-Ceramic-Coating.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	
Solids Content	42.5 %	42.5 %	by volume
	57.1 %	57.1 %	by weight
Volatile Organic Compounds (VOC) Content	635 g/l	635 g/l	
Viscosity	250 - 500 cP	250 - 500 cP	
Thickness	25.4 microns	1.00 mil	recommended dry film thickness
	61.0 microns	2.40 mil	estimated wet film thickness

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	593 °C	1100 °F	
Flash Point	48.0 °C	118 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	50.0 - 120 °C	122 - 248 °F	Application Temp
Cure Time	45.0 min	0.750 hour	preceded by 1 hour air set
	@Temperature 249 °C	@Temperature 480 °F	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 4.44 - 32.2 °C	@Temperature 40.0 - 90.0 °F	

Descriptive Properties	Value	Comments
Color	Jet Black	

Dry Film Coverage ft ² /gal Descriptive Properties	681 Value	at 1 mil Comments
Thinner	PM Acetate	

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