

Aremco Graphi-Coat™ 623 High Temperature Specialty Coatings Inorganic, Titanium Diboride Filled

Category : Ceramic , Boride , Other Engineering Material , Ceramic/Metallic Coating

Material Notes:

This coating system, originally patented by Aremco, is a tow-part, silica-bonded, titanium diboride filled, oxidation resistant coating for protecting graphite from oxidation to 2000°F (1093°C). Used on graphite crucibles, heat-treating fixtures, and electrodes in the metallurgical industry.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Graphi-Coat-623-High-Temperature-Specialty-Coatings-Inorganic-Titanium-Diboride-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.00 g/cc	2.00 g/cc	
Solids Content	57.7 %	57.7 %	by volume
	78 %	78 %	by weight
Volatile Organic Compounds (VOC) Content	0.00 g/l	0.00 g/l	
pH	7.00 - 8.00	7.00 - 8.00	coating
Viscosity	1000 - 2500 cP	1000 - 2500 cP	
Storage Temperature	4.44 - 32.2 °C	40.0 - 90.0 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1090 °C	2000 °F	Continuous

Processing Properties	Metric	English	Comments
Processing Temperature	10.0 - 32.2 °C	50.0 - 90.0 °F	Application Temperature
Cure Time	>= 60.0 min	>= 1.00 hour	Air Set prior to curing
	15.0 min	0.250 hour	
	@Temperature 760 °C	@Temperature 1400 °F	
Shelf Life	6.00 Month	6.00 Month	

Descriptive Properties	Value	Comments
Dry Film Coverage ft2/gal	890	at 1 mil
Mix Ratio By Weight	60:40	resin:hardener

Descriptive Properties	Value	Comments
Weight/Gallons	12.5 lbs	

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