

3M Scotchkote™ 206N Fusion Bonded Epoxy Coating (Fluid Bed Grade)

Category : Polymer , Thermoset , Epoxy

Material Notes:

3M Scotchkote Fusion-Bonded Epoxy Coating 206N (Fluid Bed Grade) is a one-part, heat curable, thermosetting epoxy coating designed for corrosion protection of metal. The epoxy is applied to preheated steel as a dry powder which melts and cures to form a continuous, insulative corrosion barrier on pipe, fittings, valves, couplers, pumps and other equipment. Scotchkote coating 206N is NSF/ANSI 61 certified for potable water applications and is also resistant to corrosive soils, hydrocarbons, harsh chemicals and sea water. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotchkote-206N-Fusion-Bonded-Epoxy-Coating-Fluid-Bed-Grade.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	
Water Absorption	<= 3.0 %	<= 3.0 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	18	18	ASTM D2583
Tensile Strength at Break	26.9 MPa	3900 psi	ASTM D2370
Elongation at Break	6.9 %	6.9 %	ASTM D2370
Compressive Strength	80.0 MPa	11600 psi	ASTM D695
Gardner Impact	18.1 J	13.3 ft-lb	1.6 cm diameter tup, 0.32cm x 7.6cm x 7.6cm steel panel
Coefficient of Friction	10.8	10.8	AP RP5L2-1968
Abrasion	0.114	0.114	[g] CS-17 1000g weight, 5000 cycles; ASTM D4060

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.30e+15 ohm-cm	1.30e+15 ohm-cm	ASTM D257
Dielectric Strength	45.3 kV/mm	1150 kV/in	ASTM D1000

Processing Properties	Metric	English	Comments
Cure Time	3.00 min	0.0500 hour	
	@Temperature 246 °C	@Temperature 475 °F	
	4.00 min	0.0667 hour	

Processing Properties	@Temperature 232 °C Metric	@Temperature 450 °F English	Comments
	6.00 min	0.100 hour	
	@Temperature 218 °C	@Temperature 424 °F	
	10.0 min	0.167 hour	
	@Temperature 204 °C	@Temperature 399 °F	
Gel Time	0.366666 - Error in fixSigDigits: @digits must be between 1 and 12. @digits is: 15 min	0.366666 - Error in fixSigDigits: @digits must be between 1 and 12. @digits is: 15 min	
	@Temperature 232 °C	@Temperature 450 °F	
	0.6167 min	0.6167 min	
	@Temperature 218 °C	@Temperature 424 °F	
	0.6667 min	0.6667 min	
	@Temperature 204 °C	@Temperature 399 °F	
	2.40 min	2.40 min	
	@Temperature 246 °C	@Temperature 475 °F	
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Appearance	Blue Green	

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