

3M Scotchkote™ 412 Spray Grade Fusion Bonded Epoxy Coating

Category : Polymer , Thermoset , Epoxy

Material Notes:

3M Scotchkote Spray Grade Fusion Bonded Epoxy Coating 413 is a one-part, heat curable, thermosetting epoxy coating designed for corrosion protection of reinforcing steel. The epoxy is applied to preheated steel as a dry powder which melts and cures to a uniform coating thickness. This bonding process provides excellent adhesion and coverage on concrete reinforcing bar, wire fabric, piling, tensioning hardware and other steel member of any size or shape. Scotchkote 413 is resistant to corrosive agents such as deicing salts, airborne slat spray, sea water, harsh chemicals, acid rain, carbonation, contaminated aggregate and concrete additives. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotchkote-412-Spray-Grade-Fusion-Bonded-Epoxy-Coating.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Knoop	>= 16	>= 16	
Impact Test	9.04 J	6.67 ft-lb	ASTM A775
	18.1 J	13.3 ft-lb	0.32cm x 7.6cm x 7.6cm steel panel, 1.6cm radius tup; ASTM G14
Penetration	0.00	0.00	ASTM G17
	@Temperature -40.0 - 116 °C	@Temperature -40.0 - 241 °F	
Abrasion	5.0	5.0	[mg] CS-17, 1000 cycles, 1000g; ASTM D775

Processing Properties	Metric	English	Comments
Cure Time	5.00 min	0.0833 hour	
	@Temperature 232 °C	@Temperature 450 °F	
	6.00 min	0.100 hour	
	@Temperature 218 °C	@Temperature 424 °F	
	8.00 min	0.133 hour	
	@Temperature 204 °C	@Temperature 399 °F	
	12.0 min	0.200 hour	
	@Temperature 191 °C	@Temperature 376 °F	
	20.0 min	0.333 hour	

Processing Properties	@Temperature 177 °C Metric	@Temperature 351 °F English	Comments
Gel Time	0.250 - Error in fixSigDigits: @digits must be between 1 and 12. @digits is: 15 min	0.250 - Error in fixSigDigits: @digits must be between 1 and 12. @digits is: 15 min	
	@Temperature 204 °C	@Temperature 399 °F	

Descriptive Properties	Value	Comments
Appearance	Green	

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