



Scotchkote™

206N Fusion-Bonded Epoxy Coating

Product Description

3M™ Scotchkote 206N Fusion-Bonded Epoxy Coating is an one-part, heat curable, thermosetting epoxy coating powder designed for corrosion protection of pipe.

Temperature Operating Range

The Scotchkote 206N coating, when properly applied, should perform in a satisfactory manner on pipelines operating between -100°F/-73°C and 230°F/110°C. However, it is difficult to accurately predict field performance from the laboratory data due to the wide variation in actual field conditions. Soil types, moisture content, temperatures, coating thickness and other factors specific to the area all influence the coating performance and the upper temperature operating limit.

Properties

Property	Value
Specific Gravity	
Film	1.36
Powder	1.44
Coverage based on film	141 ft ² /lb/mil (0.735 m ² /kg/mm)



Tested and Certified to ANSI/NSF Standard 61, Drinking Water System Components.

3M Scotchkote 206N Fusion-Bonded Epoxy Coating Test Data

Property	Test Description			Typical Value
Impact	ASTM G14 (modified)			
	1/8 in (3.2 mm) thick plate			160 in•lbs (18.1 joules)
Cathodic Disbondment	3/8 in (9.5 mm) thick plate			59 in•lbs (6.7 joules)
	CAN/CSA-Z245.20-12.8			
Hot Water Resistance	48 hours, 1.5 volt, 3% NaCl 149°F/65°C			3.4 mm r
	28 day, 1.5 volt, 3% NaCl 73°F/23°C			3.8 mm r
	28 day, 1.5 volt, 3% NaCl 149°F/65°C			13.5 mm r
Bendability (Mandrel Bend)	24 hours, CAN/CSA-Z245.20-12.14, 203°F/95°C			2 rating
	48 hours, CAN/CSA-Z245.20-12.14, 167°F/75°C			2 rating
Compressive Strength	Temperature	Pipe Diameters	°/PD	% Elongation
	73°F/23°C	<10.5	>5.5	>4.8
	-22°F/-30°C	<19.1	>3.0	>2.6
Penetration	ASTM D 695			> 10,000 psi (705 kg/cm ²)
Dielectric Strength	ASTM G 17			0
Thermal Shock	-40° to 200°F/-40° to 93°C			
	ASTM D 149-95a			1,392 volts/mil (54.8 kv/mm)
Thermal Shock	-320° to 310°F/-195° to 154°C			No visible effects
				10 cycles

Note: The typical values in this data sheet are based on lab prepared samples. Values shown are not to be interpreted as product specifications.

Handling & Safety Precautions

Read all Health Hazard, Precautionary, and First Aid statements found in the Material Safety Data Sheet, and/or product label prior to handling or use.

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