

3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 226N+

Product Description

3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 226N+, is a one-part, heat curable, thermosetting epoxy coating. It is designed to provide superior performance and adhesion to the metal substrate, excellent cathodic disbonding properties without the use of a chromate pretreatment, and improved damage resistance.

Scotchkote 226N+ Test Data

Property	Value
Color Federal Standard 595B	14272/Green
Specific Gravity - Film	1.44
Powder	1.57
Coverage based on film	133 ft ² /lb/mil (0.69 m ² /kg/mm)
Shelf Life at 27°C	12 months
Particle size larger than 250µm larger than 150µm	<0.2% <3.0%
Moisture Content	<0.3% at manufacture
Gel Time at 205°C	
226N+ 4G	7.6 - 11.5 seconds
226N+ 8G	17 - 23 seconds
226N+ 11G	24 - 36 seconds
Cure Time at 232°C	
226N+ 4G	40 seconds
226N+ 8G	90 seconds
226N+ 11G	110 seconds

Temperature Operating Range

Scotchkote 226N+, when properly applied, should perform in a satisfactory manner on pipelines operating between -100°F/-73°C and 230°F/110°C. For temperatures between 170°F/77°C and 230°F/110°C, laboratory tests indicate that the thicker coatings may improve the service capability. It is difficult to accurately predict field performance from laboratory data, due to the wide variation in actual field conditions. Operating temperature performance depends on the whole system, not only the FBE coating. Soil types, moisture content, temperature and other factors peculiar to the area all influence the coating performance and the upper temperature operating limit.

Test Data

Coating performance is affected by the degree of surface preparation, application temperature, film formation and curing conditions.

Scotchkote 226N+ Test Data

Property	Test Description	Typical Value
Impact	-30°C	6J
Cathodic Disbondment	24 hours, 65°C, 3.5V, 3% NaCl CSA Z245.20-02, Clause 12.8 14 day, 65°C, 1.5V, 3% NaCl 28 day, 23°C, 1.5V, 3% NaCl 28 day, 65°C, 1.5V, 3% NaCl	2.5 mmr 3.0 mmr 2.3 mmr 6.0 mmr
Hot Water Resistance	24 hours, CAN/CSA-Z245.20-02-12.14 203°F/95°C 48 hours, CAN/CSA-Z245.20-02-12.14 167°F/75°C	1 rating 1 rating
Flexibility (Bendability) (Mandrel Bend)	-30°C CSA Z245.20-02, Clause 12.11 <u>Temperature</u> <u>Pipe Diameters</u> <u>%/PD</u> -22°F/-30°C >19.1 >3.0	>3PD <u>% Elongation</u> >2.6
Penetration	ASTM G 17 -40° to 200°F/-40° to 93°C	0
Volume Resistivity	ASTM D 257	1.2*1015 ohm*cm
Electrical Strength	ASTM D 1000	1160V/mil / 45.2kV/mm

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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For ordering technical or product information, or a copy of the Material Safety Data Sheet, call:

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