

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

Product Description

The 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, and to provide excellent cathodic disbonding properties without the use of a chromate pretreatment.

Scotchkote 226N Test Data

Property	Value
Color Federal Standard 595B	14272/Green
Specific Gravity Powder	1.44
Shelf Life at 27°C	12 months
Particle size larger than 250 µm larger than 150 µm	<0.2% <3.0%
Moisture Content	<0.3% at manufacture
Gel Time at 205°C	
226N 4G	7-12 seconds
226N 8G	17-23 seconds
226N 11G	24-36 seconds
Cure Time at 232°C	
226N 4G	30 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 - Coating

Property	Test Method	Value
Impact	CSA Z245.20	1.5 J
Cathodic Disbondment	24 hours, 65°C, 3.5V, 3% NaCl 14 day, 65°C, 1.5V, 3% NaCl 28 day, 23°C, 1.5V, 3% NaCl 28 day, 65°C, 3.5V, 3% NaCl	2.5 mm r 3.0 mm r 2.3 mm r 6.0 mm r
Hot Water Resistance	24 hours, CAN/CSA-Z245.20-12.14, 203°F/95°C 48 hours, CAN/CSA-Z245.20-12.14, 167°F/75°C	1 rating 1 rating
Flexibility (Bendability) (Mandrel Bend)	-30°C CSA Z245.20-02, Clause 12.11 <u>Temperature</u> -22°F/-30°C	<u>°/PD</u> 3.0
Penetration	ASTM G 17 -40° to 200°F/-40° to 93°C	0
Volume Resistivity	ASTM D 257	1.2*10 ¹⁵ 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.





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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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80-6111-8490-6-C