

3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 626-140

Data Sheet

Product Description

3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 626-140 is a one-part, heat curable, thermosetting epoxy powder designed as a stand-alone or the corrosion coating for a dual-layer FBE system for the corrosion protection of pipe.

Temperature Operating Range

The Scotchkote 626-140 coating, when properly applied as a stand alone FBE pipe coating, should perform in a satisfactory manner on pipelines operating between -100°F/-73°C to 275°F/135°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.

3M Scotchkote Fusion-Bonded Epoxy Coating 626-140 Test Data

Property	Test Description	Typical Value
Density	Air Pycnometer	1.51 (powder) ^{1,2}
Coverage		127 ft ² /lb/mil (0.662 m ² /kg/mm)
Color		Green
Gel Time	CAN/CSA-Z245.20-12.2 204°C/400°F	9.7 +/- 20% ^{1,2}
Cure Time	CAN/CSA-Z245.20-12.1 232°C/450°F	<240 seconds
Thermal Characteristics	CAN/CSA-Z245.20-12.7	
	T _g ¹	47.3 °C ²
	T _g ² (Onset)	132.82°C ²
	T _g ² (Inflection)	142.15°C ²
	Δ H	100 J/g ²
Cathodic Disbondment	CAN/CSA-Z245.20-12.8	Disbondment mm/ r
	24 Hr., 3.5 volt, 3% NaCl 65°C/149°F	1.79 ^{1,2}
	28 Day., 1.5 volt, 3% NaCl 65°C/149°F	4.32 ^{1,2}
	14 Day., 1.5 volt, 3% NaCl 95°C/203°F	4.39 ^{1,2}
	28 Day., 1.5 volt, 3% NaCl 95°C/203°F	6.6 ^{1,2}



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Property	Test Description	Typical Value
Cross Section Porosity	CAN/CSA-Z245.20- 12.10	4 ¹
Interface Porosity	CAN/CSA-Z245.20- 12.10	3 ¹
Flexibility	CAN/CSA-Z245.20- 12.11 2°/PD @ -30 DegC/- 22°F	No Cracking
Impact	Mod. G14 1.5j	Pass
Strained Coating Cathodic Disbondment	CAN/CSA-Z245.20- 12.13 2.5 degrees strain / 28 Day., 1.5 volt, 3% NaCl 149°F/65°C	No Cracking
Adhesion	CAN/CSA-Z245.20- 12.14 24 hr (75°C/167°F) 21 day (75°C/167°F) 14 day (95°C/203°F) 28 day (75°C/167°F) 28 day (95°C/203°F)	Rating 1 ^{1,2} 3 ^{1,2} 3 ^{1,2} 3 ^{1,2} 3 ^{1,2}
Volume Resistivity	ASTM D-257	1.2 x 10 ¹⁵

¹ Average of three tests

² The typical values in this data sheet are based on lab prepared samples. Values shown are not to be interpreted as product specifications.

Handling and Safety Precautions

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

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Corrosion Protection Products Division

6801 River Place Blvd.
Austin, TX 78726-9000
www.3M.com/corrosion

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