

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
Cathodic Disbondment	Δ H	100 J/g ²
	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}



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

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	Rating
	24 hr (75°C/167°F)	1 ^{1,2}
	21 day (75°C/167°F)	3 ^{1,2}
	14 day (95°C/203°F)	3 ^{1,2}
	28 day (75°C/167°F)	3 ^{1,2}
	28 day (95°C/203°F)	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.



B&W Distributors, Inc. | PO Box 21960 Mesa, AZ 85277 | P: 480-924-8883 | F: 480-924-9100
info@bwdist.com | www.bwdist.com

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.

3M and Scotchkote are trademarks of 3M Company.

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

Because conditions of product use are outside of our control and vary widely, the following is made in lieu of all express or implied warranties: this product will conform to 3M's published product specifications and be free from defects in material and manufacture on the date of your purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether indirect, special, incidental or consequential regardless of the legal theory asserted.**



Corrosion Protection Products Division

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

Please recycle. Printed in USA.
© 3M 2009. All rights reserved.
80-6111-8407-0-D