

# 3M™ Scotchkote™ Fusion Bonded Epoxy 206N

Data Sheet

April 2016

**Handling and Safety Precautions:** Read all Health Hazard, Precautionary and First Aid, Safety Data Sheet, and product label information prior to handling or use.

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

**Temperature Operating Range** Scotchkote Fusion Bonded Epoxy coating 206N, when properly applied, should perform on pipelines operating between -75°F/-60°C and 149°F/65°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

### Typical Properties

Property	Value
Specific Gravity	
Film	1.36
Powder	1.44
Coverage based on film	141 ft <sup>2</sup> /lb/mil (0.735 m <sup>2</sup> /kg/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.

**Availability** For ordering, technical, product information, or the Safety Data Sheet, call:  
Phone: 800-722-6721  
Fax: 877-601-1305



Scotchkote Fusion Bonded Epoxy coating 206N has been tested and certified to NSF/ANSI Standard 61, Drinking Water System Components. For NSF certified applications, maximum approved thickness is 60 mils (1.5mm) cured for 10 minutes at 400°F/204°C. The maximum approved operating temperature is 140°F/60°C.

# 3M™ Scotchkote™ Fusion Bonded Epoxy Coating 206N

## Product - Physical and Chemical Properties

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

Property	Test Description	Typical Value
Impact	ASTM G14 (modified) 1/8 in (3.2 mm) thick plate 3/8 in (9.5 mm) thick plate	160 in•lbs (18.1 joules) 59 in•lbs (6.7 joules)
Cathodic Disbondment	CAN/CSA-Z245.20-12.8 48 hours, 1.5 volt, 3% NaCl 149°F/65°C 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	3.4 mm 3.8 mm 13.5 mm
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	2 rating 2 rating
Bendability (Mandrel Bend)	Temperature Pipe Diameters °/PD 73°F/23°C <10.5 5.5 -22°F/-30°C <19.1 3.0	% Elongation 4.8 2.6
Compressive Strength	ASTM D 695	> 10,000 psi (705 kg/cm <sup>2</sup> )
Penetration	ASTM G 17 -40° to 200°F/-40° to 93°C	0
Dielectric Strength	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
Shelf Life	Storage Temperature 12 months minimum in a cool dry place at <80°F/27°C	

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

3M and Scotchkote are trademarks of 3M Company.

#### Important Notice

All statements, technical information and recommendations related to 3M Products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using the 3M Product, you must evaluate it and determine if it is suitable for your intended application. Because conditions of Product use are outside of our control and vary widely you assume all risks and liability associated with such use. Any Product-related statements not contained in current 3M publications, or any contrary statements contained in your purchase order, shall have no force or effect unless expressly agreed to in writing by an authorized officer of 3M.

#### Warranty; Limited Remedy; Limited Liability

3M warrants that Product will conform to 3M published specifications upon shipment. If Product is proven not to have met the specifications your exclusive remedy and 3M's sole obligation will be, at 3M's option, to replace the Product or to refund the purchase price of the Product. **EXCEPT WHERE PROHIBITED BY LAW, THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR THOSE ARISING FROM A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE.** Buyer is an expert in its field and is responsible for determining if Products are suitable for a particular purpose or application. 3M has no obligation under this warranty with respect to any Product that has failed due to inadequate or improper storage, handling, surface preparation, application, or maintenance; failure to follow Product instructions; or alteration or damage to the Product caused by accident, neglect, or misuse. **EXCEPT WHERE PROHIBITED BY LAW, IN NO EVENT SHALL 3M BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL LOSS OR DAMAGES (INCLUDING LOST PROFITS) ARISING FROM THIS PRODUCT, REGARDLESS OF THE LEGAL THEORY ASSERTED.**



Electrical Markets Division  
6801 River Place Blvd.  
Austin, TX 78726-9000  
800.722.6721  
www.3M.com/corrosion

Please recycle  
© 3M 2016 All rights reserved  
78-8141-8607-4 Rev A