

3M™ Scotchkote™

Rapid Setting Polymeric Lining 166L

Updated
Supersedes

July 2014
October 2013

Data Sheet and Application Guide

Product Description

3M™ Scotchkote™ Rapid Setting Polymeric Lining 166L has been specifically designed for in-situ application to the internal surfaces of small diameter service pipes supplying drinking water to domestic and commercial properties. It has been specifically formulated for application via forced air vortex technology.

Product Features

- Rapid cure time allowing return to service procedures to commence after 4 hours.
- Approved for use under Regulation 31(4)(a) of the Water Supply (Water Quality) Regulations.

General Application Steps

- 1 Surface preparation and cleaning.
- 2 Apply Scotchkote rapid setting polymeric lining 166L at the specified thickness.
- 3 Allow to cure.
- 4 Flush with clean water.
- 5 Dry by application of a forced air vortex of filtered air.

Properties

Property	Value
Colour	Grey
Ratio	3:2 by volume 100:60 by weight
Gel Time @ 20°C (68°F)	4.5 minutes (150g mass)
Cure Time (Return to Service)	4 hours
Volume Solids	100%
V.O.C	Nil
Film Thickness (Typical)	Wet/Dry 1mm
Theoretical Coverage Rate	1 sq metre per litre at 1000 microns dft

Performance Data

Adhesion (Steel)	16.9 MPa (ASTM D4541)
Tensile Strain	30.40% (ASTM D638)
Tensile Stress	19.4 MPa (ASTM D638)
Flexural Modulus	137 MPa (ASTM D790)
Flexural Stress	7.14 MPa (ASTM D790)
Tg	45°C (ASTM D7028)
Abrasion Resistance	103mgm weight loss per 1000 cycles-1kg load - CS17 Wheel (ASTM D4060)
Shore D Hardness	76 (ASTM D2240)
Potable Water Approvals:	
UK	Regulation 31(4)(a)



Application Procedures for Scotchkote Rapid Setting Polymeric Lining 166L

Surface Preparation

The cleaning method employed is based on forced air vortex technology which involves blowing dry, washed aggregate down the pipe at high speed until all water, tuberculations, loose deposits, lead oxide and other foreign materials from inside the pipe have been removed. The cleaning method shall leave the bore of the service pipe dry, smooth, intact and free from dust to ensure a secure bond for the applied lining.

The aggregate used should be dry, dust free and type approved by the equipment manufacturer. The aggregate and removed deposits shall be collected in an enclosed receptacle at the end of the service pipe. This collection receptacle shall have suitable air filtration facilities to help ensure that contaminated dust from the cleaning is fully contained.

Application Procedures

Full application details are contained within Instructions For Use (IFU) Document 29P-SP(4). In order to comply with the conditions of approval under Regulation 31(4)(a), the product must be applied by an independently assessed and certified contractor in accordance with the IFU document and the requirements of the **Water Suppliers Approved Installation Method (AIM): The in-situ lining of service pipes using polymeric materials with application by a forced vortex of air.**

Packaging and Storage

Supplied separately in 5 litre Part A (Base) and 5 litre Part B (Activator) units.

Use within 12 months of date of manufacture. Store between 5°C and 32°C.

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.

Ordering Information/Customer Service

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

Phone: +44 (0) 1609 780170

Fax: +44 (0) 1609 783762 (Sales) / 788718 (Technical)

For emergencies, please contact +44 (0)1344 858000

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3M warrants that the 3M™ Scotchkote™ Product will conform to 3M published specifications upon shipment. If the product is proven not to have met the specifications your exclusive remedy within 12 months of sale by 3M of the product 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 suitability or fitness for a particular purpose, or those arising from a course of dealing, custom or usage or trade.

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