

3M Water Infrastructure
3M™ Scotchkote™ Spray In Place Pipe 269 Coating
Product Description



Sustainable Performance Purity and Trust

Worldwide, 3M provides sustainable, economic solutions for maintaining and protecting our critical potable water infrastructure – from reservoir to tap.

A recognized leader in research and development, 3M's core strength is applying its more than 40 distinct technology platforms to a wide array of customer needs.

For more information on 3M technologies, to arrange a pilot test in your area, or to find an applicator near you, visit www.3M.com/water.





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Water—Our most precious resource. Whether at home, at the office or out in the community our access to pure, clean drinking water is often taken for granted—its power only realized when we are forced to go without.

Provision of this essential resource is an unseen challenge. With an aging underground system, the need for new, innovative methods of accurately and efficiently detecting, assessing and repairing the potable water infrastructure continues to gain notoriety in the public opinion.

3M™ Scotchkote™ Spray In Place Pipe 269 Coating has been specifically developed to rehabilitate potable water pipe infrastructure to extend service life, reduce leaks and improve water quality. Approved to NSF/ANSI Standard 61 as certified by WQA and NSF, product offerings include:

A Sustainable, Cost Effective Solution

3M™ Scotchkote™ Spray In Place Pipe 269 Coating offers a sustainable, cost-effective alternative to traditional potable water pipe infrastructure rehabilitation methods. Its unique polyurea blend, in combination with a trenchless application process, resurfaces existing infrastructure—restoring pipe width, increasing water flow rates and minimizing water loss throughout the system.

Rapid Return to Service

With a patent pending formula featuring a one-hour cure time 3M™ Scotchkote™ Spray In Place Pipe 269 Coating offers the ability for rapid, same day return to service. Minimizing all civil service disruptions—from traffic re-routing to water service shut off—3M™ Scotchkote™ Spray In Place Pipe 269 Coating is a solution which can provide customized service, long-lasting results and added benefit to consumers.

A Unique Application Process

For the protection and maintenance of your potable water infrastructure, 3M™ Scotchkote™ Spray In Place Pipe 269 Coating, and its unique application process, help keep water flowing.

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3M Water Infrastructure
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Certified to
NSF/ANSI 61

3M Water Infrastructure
3M™ Scotchkote™ Spray In Place Pipe 269 Coating
Data Sheet



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3M™ Scotchkote™ Spray In Place Pipe 269 Coating Data Sheet

Product Description

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Product Features

- Approved to NSF/ANSI Standard 61 as certified by WQA and NSF
- Based on two-part poly-urea chemistry
- Contains no VOCs per EPA method 8260
- Quick cure allows CCTV inspection immediately after application
- Same day return to service possible, permitting the elimination of bypass piping
- Recommended for application in pipes with diameters of 4 in (10 cm) to 12 in (30 cm). Please consult a 3M Technical Service Representative for use on larger diameter pipes.
- Typically will not plug service connections
- Adds structural integrity and service life to the pipeline
- Application method incorporates trenchless technology



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Properties

Property	Value
Color	Gray
Ratio	1:1 By volume 100:112.4 By weight
Drying & Cure times at 68°F (20°C)	
Gel Time	120 seconds
Film Set Time	4 minutes
Cure Time (CCTV inspected)	10 minutes
Cure Time (Return to Service)	60 minutes
Volume Solids	100%
Shelf Life	Base use within 6 months of date of manufacture. Activator use within 12 months of date of manufacture. Store in original sealed containers at temperatures between 32°F (0°C) and 86°F (30°C).
V.O.C.	Nil
Target Thickness	140 mil (3.5 mm)
Representative Coverage Rate for 8" diameter pipe	0.2 gallons/ft

Material Properties

Test	Standard	Result
Tensile Strength at Break	ASTM D638	16 Mpa
Tensile Elongation	ASTM D638	64%
Flexural Strength	ASTM D790	22 Mpa
Flexural Modulus	ASTM D790	720 Mpa
Hardness	ASTM D2240	65 Shore D
Impact Resistance 120 mil (3 mm thickness)	ASTM D2794	> 18 Joules
Abrasion Resistance	ASTM D4060	71 mgm/1000 cycles (CS17 Wheel, 1 kg load)
Glass Transition Temperature 1	ASTM D7028	-40°F (-40°C)
Glass Transition Temperature 2	ASTM D7028	123°F (51°C)
Coefficient of Thermal Expansion -22 to 86°F (-30 to 30°C)	ASTM D696	116 ppm



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