



Envirolitics BluKote™

ANSI/NSF 61 Polymeric Resin

TECHNICAL DATA SHEET

Envirolitics BluKote™ is a two part polymeric coating designed to provide a barrier coat for the trenchless rehabilitation of structurally sound potable water mains.



Meets the Requirements
of NSF/ANSI 61-5

The material is applied using the BluKote airborne lining system only.

The Envirolitics BluKote airborne lining system uses a high-volume, low-pressure airstream generated by a vacuum truck and aerodynamically engineered distributive body(s) (DB), to deliver BluKote material to the pipe walls for a continuous barrier coating. The application resolves water quality and flow/hydraulic issues and helps to extend pipe service life.

CHARACTERISTICS	
Mix Ratio (by volume)	3:1
Gel Time	30 minutes at 21°C (70°F)*
Dry Time - Tack Free	4 hours at 21°C (70°F)*
Return to Service Time - 5x tack free time **	20 hours at 21°C (70°F)* – water advisors may be required
Recoat Time	Once material is tack free and up to 72 hours
Design Life	Up to 50 years
Color	Light blue
Theoretical Coverage	Ø100mm - 0.47L per meter Ø150mm - 0.70L per meter Ø200mm - 0.93L per meter
Average Film Thickness (per pass)	0.75 to 1.0 mm, max of two passes
Water Main Length (max)	Up to 120 meters (400 feet)
Bond Strength to Surface (ASTM D4541)	>3.4 MPa (500 psi) for pipe cleaned to ASTM F3182

*Temperatures shown above are ground temperatures experienced at the pipe.

** Return to service time from when application of BluKote was completed.

APPLICATION

- Envirolitics BluKote airborne lining system - www.envirolitics.ca/technologies/blukote-lining
- Designed for diameters ranging from 100mm (4in) to 200mm (8in) inclusively, larger pipe size pending
- Can be applied to cast, ductile, steel, cement or etched PVC
- In-ground pipe temperature must be between 7°C (45°F) to 24°C (75°F)
- Apply only if pipe wall temperature is a minimum of 1°C (2°F) above ambient dew point temperature and pipe remains dry
- Will require addition of Cabosil into BluKote resin to maintain consistent application across temperature range according to Envirolitics procedures
- Clean and dry water main using the Tomahawk™ System prior to applying BluKote
- One coat is often sufficient, but two coats may be required for deteriorated pipe conditions
- Coating can be video inspected once all the material in the pipe is hard and tack free

FEATURES

- Lining system classified as AWWA M28, Class 1
- Tenacious liner bonding to pipe wall exceeding requirements for ASTM F3182
- Fast, 9 to 11 minutes to apply BluKote to typical 100m section



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- Equipment set-up can take as little as 30 minutes
- Quickly clean-up equipment in 30-45 minutes, manufacturer's cleaning solvent required
- Return-to-service in as little as 20 to 24 hours. Observe municipal boil water advisory procedures
- Minimum of 48 hours before drinking water

BENEFITS

- Restores hydraulic capacity - Providing a "C"-Factor above 110
- Improves drinking water quality - No more discolored water, improves chlorine residuals
- Arrest interior corrosion - Extending pipe's service life
- Continuous coating - Leaving no exposed surfaces around service connections or joints
- Coating does not plug service connections - No need for service reinstatement
- Aerodynamic process with few moving parts - Greatly reduce equipment downtime
- Water main is left leak-free following lining - Supporting water conservation initiatives*
- 100% solids, zero VOC's - Does not contain unwanted solvents

Storage and Use: The unmixed shelf life is 18 months from date of manufacture when stored indoors and in their original sealed containers at 10°C to 30°C. Quickly reseal unused materials in their original containers.

Safe Handling: Move unmixed material around in sealed containers. If material comes in contact with skin, immediately wipe off with clean rag and wash with soap and water. Refer to Safety Data Sheets for further instructions.

Warranty: The manufacturer warrants only that the product meets the quality and technical standards reflected in this document. The Manufacturer cannot be held responsible for circumstances outside of its control including, but not limited to: product application, product handling, product storage, or any other conditions outside of manufacturer's control. If within one (1) year from date of manufacture, any product is proven by accepted industry standard test methods to be defective, the manufacturer will at its sole option, either replace or refund the purchase price of this product. These remedies shall constitute the sole and exclusive remedy for any claim under this warranty. This warranty is in lieu of any other warranties, expressed, implied, or statutory and is strictly limited to its terms.

Material Orders: You can order materials by sending an email to supplies@envirologics.ca

1. Envirologics BluKote is supplied in 15L kits
2. Clean-up thinner in 3.6L cans.
3. Cabosil in 10 Lbs bags

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*Pipe leaks must be repaired prior to lining using repair sleeves or other means.