



SOLUTIONS FOR STRUCTURAL REHABILITATION OF FIRE MAINS

RS BLUELINE® LINING SYSTEMS



REHABILITATION OF UNDERGROUND FIRE SERVICE MAINS

RS BlueLine is a cured-in-place pipe (CIPP) system used to extend the useful life of existing underground pressurized pipelines including fire service and water mains. CIPP trenchless technology consists of a flexible textile tube impregnated with a thermosetting epoxy resin that is installed and cured producing a new pipe within the existing pipe.

FEATURES OF RS BLUELINE

- Fits tightly to the interior of the existing pipe, sealing leaking joints and pit corrosion
- Prevents future internal corrosion and tuberculation
- Functions as an independent system capable of maintaining internal pressure and withstanding external loads without support of the existing pipe

APPLICATION RANGE

Existing Conditions	RS Blueline
Pipe Material	All Types (DI, CI, AC, Steel, FRP, PVC)
Pipe Diameter	6 to 24 in. (150 to 600 mm)
Rated Working Pressure	Up to 335 psi – varies by diameter
Bends	Up to 45°
Continuous Length	Typical segment 100 to 500 ft. (30 to 152 m) – up to 1000 ft.

TECHNICAL DATA

Tube Material	Multi-layered fiberglass reinforced polyester felt
Resin Material	Epoxy
Inner Coating Material	Polyolefin
Resin Impregnation	Compliant with ASTM F2994
Installation Method	Inversion per ASTM F1216
Curing Method	Controlled steam or hot water
Terminations	Mechanical end seals
Certification – Potable Water	Certified to NSF/ANSI/CAN 61 by NSF International
Certifications – FM	Certified to FM Approval, Class 1616
Structural Classification – AWWA	Class IV – Fully structural pressure pipe lining

REHABILITATION

Breaks, leakage, and structural deterioration require immediate attention to ensure the critical supply of firefighting water when needed. In 2020, FM Approvals released FM Class 1616 Approval Standard for Underground Pipeline Rehabilitation. This Standard includes the requirements for certification of CIPP trenchless technology for the rehabilitation of underground pressurized pipelines. RS Blueline is the first and only CIPP system to gain FM Approval for compliance with FM Class 1616.

The rehabilitation process includes cleaning of the existing pipe to remove loose obstacles and provide a sufficient internal pipe surface for optimum hydraulic performance of the rehabilitated pipe. Water jetting and mechanical cleaning devices are used for cleaning depending on the host pipe condition. Utilizing HammerHead mobile wet out technology and procedures in compliance with ASTM F2994 the tube material is impregnated with the approved epoxy resin while under vacuum. The wet-out liner then passes through computer-controlled calibration rollers, installed and cured-in-place in compliance with ASTM F1216.

SEE HOW IT WORKS



Certified to
NSF/ANSI/CAN 61



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