

InsituMain® Pressure Pipe Lining

Product Information

The cured-in-place pipe solution for distribution and trunk main rehabilitation.



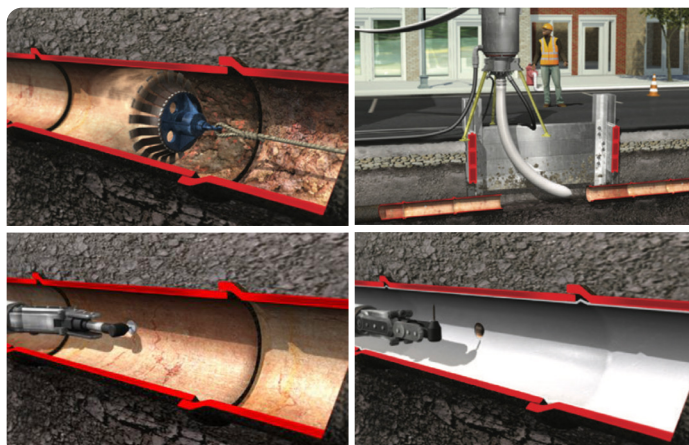
The InsituMain® system is ideal for the renewal of distribution and trunk water mains, starting from 200 mm up to 2400 mm in diameter.

Insituform Technologies continues to advance the pipeline rehabilitation market by offering the latest innovations in cured-in-place pipe (CIPP) technology, specifically engineered for drinking water pipelines. With over 55 years of experience and more than 700,000 metres of trenchless pressure pipeline installations, Insituform introduces the InsituMain® system – a modern solution for pressure pipe renewal.

Certified to USA: NSF/ANSI Standard 61 and the European KIWA drinking water standards, the system is manufactured to meet project specifications and can be used as either an interactive or independent solution, depending on rehabilitation needs.

Insituform's manufacturing and installation processes comply with ISO standards and are governed by their internal quality control programme. As a vertically integrated company, Insituform handles engineering, R&D, manufacturing, installation, and service – ensuring consistent high performance.

The InsituMain® system is installed inside an existing host pipe, eliminating disruption to surrounding utilities. This trenchless method reduces the social and environmental costs typical of traditional dig-and-replace, including noise, traffic, emissions, and safety concerns.



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1. General Data	
Diameter range	200mm to 1200mm
Wall thickness	6mm to 30mm
Carrier material	PET - Needle punch felt / PP coating & ECR glass layers
Suitable resins	Recommended specific flexible Polyester or vinylester styrene free (Insituform / MTC Technical support required)
Curing technologies	Hot water and steam - Note: steam cure only after consultation with Insituform's Technical Engineer.
Abrasion layer	PP-coating: Standard 450 - 550 g/m², optional 850 - 950 /m²
Abrasion resistance	According to DIN EN 295-3
Working pressure rate	Up to a max. of 15 bar (depending on the diameter and site conditions)

2. Mechanical Performance	
Short time E modulus (DIN EN 1228)	2200 MPa - 3080 MPa
E-Modules long time	1100 MPa - 1540 MPa
Flexural strength, short term σ_B (DIN EN ISO 11296 or DIN EN ISO 178)	30 MPa
Flexural strength, long term σ_B	15 MPa
Tensile strength	Depending on the type & amount of glass layers used (design specific)
Long term reduction factor	2.00
Pressure resistance vacuum	Up to -0,9 bar (depending on diameter)

3. Operating Conditions	
Chemical resistance	pH4 to pH10 (Depending on media temperature and kind of resin)
Max. media temperature	40°C
Old pipe condition	I, II or III (The necessary wall thickness is to define by the static calculation)
Displacements at joints	Yes
Bends	Yes, limited to long bends of up to 45 degrees
Diameter transitions	No
Wall thickness transition	Yes
Typical installation length	50m to 250m
Shape of the old pipe	Round
Material of the old pipe	No limitation

4. Transport and Stocking of Wet Liners (varying according to the used resin)	
Packing	Refrigerated cooling containers (Temperature controlled reefer unit)
Storage time / Pot-life	Max. 3 days storage after the completion of impregnation of a temperature of max. 5°C recorded at the centre of the liner stack.