Bridging the gap between two pipes!

A unique application for PipeMedic™

A Patent-Pending Technology Developed by QuakeWrap, Inc.

Many old gas pipes have drip pots that are no longer needed. Others have T-connections that must be abandoned. In both cases, a strong material is needed to bridge over the gap and create a continuous pipe in the field – all in a remote trenchless operation!

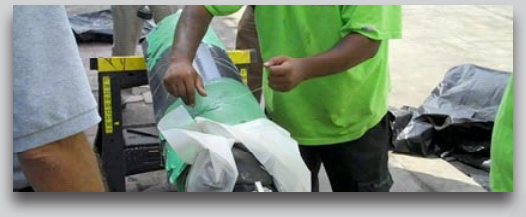
This sheet demonstrates the steps for a trial application performed for Public Service Electric and Gas Services (PSE & G) of New Jersey in July 2010.

16 inch (400 mm) diameter steel pipe with a 24 inch (600 mm) long piece missing

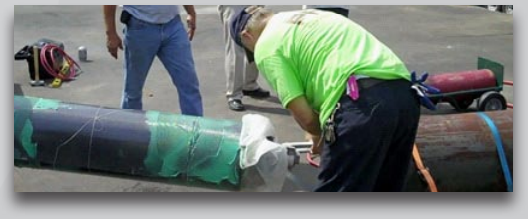
PipeMedic™ PC26.16 laminate is cut to length and QuakeBond™ J201TC epoxy is applied to one face.

PipeMedic™ laminate is rolled up around the packer into a coil with a diameter of approximately 12 inches (300 mm)

The outer surface of PipeMedic™ is also coated with epoxy for bonding to the interior surface of the pipe



The PipeMedic™ assembly is held in coiled position using strings or rubber bands



The PipeMedic™ and packer assembly is inserted into pipe ….

Pulled through the pipe ….

And postioned in the repair area with the aid of a CCTV camera

The packer is inflated, allowing the PipeMedic™ to unwind ….

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Until it reaches nearly the same 16 inch (400mm) diameter of the pipe

The repaired pipe after installation of a 3-layer thick PipeMedic™ PC26.16 Carbon Laminate, is capable of resisting more than 500 psi (35 bar).