

SYNTHO-GLASS® XT

32" TO 5" OD NATURAL GAS TEE, AMSTERDAM REINFORCEMENT AND REPAIR



Problem

A pipeline beneath the busy streets of Amsterdam was leaking natural gas and in need of immediate repair. Since the pipeline was located under a major road in the center of the city, time was of the essence as closing the road for an extended period of time would cause major disruption to the flow of traffic.

Conditions

The welded joint connecting the 32" OD line to the 5" OD branch was leaking and in need of immediate repair.

Solution

The surface of the pipe was prepared by sandblasting in accordance with Sa2.5, NACE 2, or near white metal, to remove rust, paint, and any foreign matter to promote adhesion. Syntho-Steel™ load transfer putty was used to seal the leak and fill any corrosion pits on the pipe. The entire repair area was coated with 30 mils of an anticorrosion, adhesion promoting and load transferring epoxy, Syntho-SubSea™LV. The two-part epoxy effectively stops any future corrosion from forming while also providing a load transfer median engineered to cycle and work with the 45 psi (1 bar) design pressure of the pipeline. The entire repair length was wrapped with 8 layers of Syntho-Glass®XT, a 54,000 psi (3723 bar) tensile strength fiberglass composite sleeve.

Result

The two man crew successfully installed Syntho-Glass XT system within 2 hours, effectively sealing the leak and restoring the structural integrity of the pipeline.

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