

EPEC ConduFill® Pilot Project - Poland



Project Summary:

ELBLAG, POLAND - In August 2006, Thermal Science Technologies (TST) completed its first ConduFill® pilot project for EPEC in Elbląg, Poland. ConduFill® is a proven restorative technology that was designed to thermally upgrade the insulation within buried steam and hot water distribution piping systems. This innovative 5-step-process prolongs the life of aged piping systems by injecting a rigid, high-temperature polyisocyanurate insulation into the annular space between the carrier pipe and the outer casing of the system. ConduFill® is injected while the piping system remains energized and is designed to withstand temperatures up to 400°F (204°C) on a continuous basis.

Using a Mobile Pumping Unit (MPU) that was on loan from an ongoing project in Paris, France, TST was able to thermally restore 80 meters of 219mm DN hot water supply and return pipes within a 1650 mm x 860 mm concrete tunnel. TST's ConduFill® technology greatly reduced the heat losses throughout this section of EPEC's network and it eliminated the possibility of groundwater intrusion in the future. Our innovative technology also eliminated the need to dig up and open the trenches, which is known to be a huge handicap for pedestrian and vehicular traffic throughout Poland. It should also be noted that the rigid insulation will provide 2.5 times more thermal efficiency than most conventional insulation materials on the market today such as mineral wool, calcium silicate, fiberglass and polyurethane foam shells.

The completion of this pilot project generated a great deal of interest with many heating companies as the desire to reduce energy losses and modernize their systems was becoming more of a priority. Nearly 100 representatives from various heating companies throughout Europe attended our technical seminar and witnessed the ConduFill® injections on site. TST is looking to further expand the use of ConduFill® and its Removable Insulation Covers throughout Europe at this time. For more information about licensing for this patented technology, please contact Toby Leach at toby@thermalsciencetech.com.