

# Lead-Free, Leak-Free™ Pipe Protection

## PRS® Pipe Restoration Services

Building and Facilities News is incredibly proud to present Pipe Restoration Services as its selected Pipe Solutions Company of the Month.

Established within the last two years, Pipe Restoration Services (PRS) delivers service pipe lining using patented ePIPE technology to the UK as a cost effective and sustainable solution to dissolved lead and leakage. Developed as a true alternative to pipe replacement, ePIPE is a high performing epoxy resin lining developed by Pipe Restoration Technologies, LLC, enables water pipes with an internal bore, as small as 12mm (1/2"), to be restored, in-place, with a 2 hour ready to return to service time, using compact customer-friendly installation equipment.

Pipe lining using ePIPE is much less disruptive than replacement. Excavations and plumbing can be kept to a minimum. Special adaptors for internal and external stop taps can provide access to the ends of the pipe without the need to cut into it or excavate in the footpath. The ePIPE epoxy resin is blown along the inside



surface of the pipe using filtered compressed air. There are no mechanical devices inserted in the pipe and the resin simply follows the air stream. This means that complex configurations of pipe work containing restrictions, bends and tees can be lined from convenient positions.

An ePIPE protected pipe will improve water quality, prevent further internal corrosion and reduce leakage.

### Regulatory credentials

Lead is a cumulative poison that affects the nervous and cardiovascular systems, and children are most vulnerable.

In December 2013, UK water suppliers will face strict lead reduction guidelines when the EU adopts the new World Health Organization (WHO) quality standard for lead in drinking water of 10 µg/l (10 ppb). This will affect water companies, private supplies, housing associations and any building providing drinking water to the general public.

The ePIPE lining and system of application provides an alternative solution to disruptive pipe replacement for either lead or leakage programmes. Lining the entire service supply lines from the water main to the customer's tap, the ePIPE process provides a more comprehensive and robust solution to tackling the dissolved lead than alternative traditional techniques.

PRS has recently received approval for the use of its innovative pipe lining system, e-Pipe technology, in public water supplies. Approval means that the lining process can be used on

any water company or privately owned water services and internal pipe work in the UK to repair leaks and address lead contamination issues.

ePIPE Lead-Free, Leak-Free™ Pipe Protection is the first lining material and process of its kind to meet the stringent requirements of both UK's Water Regulatory Advisory Scheme (WRAS) and the UK's Drinking Water Regulation 31.

Commenting on the approval, Keith Walker, PRS, says: "Achieving this approval from the Secretary of State, combined with our WRAS approval enables us to demonstrate the value of ePIPE technology to the full spectrum of water users including water companies, commercial property, leisure, social housing and education establishments. Problems within internal pipework can cause widespread disruption to customers and significant costs to rectify. Addressing the lead leaching reduction issue facing us in the UK is essential."

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Pipe Restoration Services is a joint venture between Morrison Utility Services and Pipe Restoration Technologies, LLC.

▲ Morrison Utility Services is the UK's leading utility service provider, working with utility company clients in the electricity, gas, water and telecommunications sectors helping them renew, refurbish and maintain

their infrastructure and networks.  
▲ Headquartered in Las Vegas, USA, PRT is the segment leader in the barrier coating and corrosion control industry, providing specialised pipe lining technology used in the rehabilitation of piping systems and in the prevention of heavy metals, such as lead and copper, leaching from pipes into the drinking water supply.

