

DrainLINER

DRAINOLGY GIVES YOU NEW DRAINS FOR OLD

DrainLINER is a permanent method of structurally repairing damaged or leaking drains, quickly and efficiently, as there is no need to excavate. It is also very cost effective in most cases.

DrainLINER can cure cracked and fractured pipes, displaced and open joints, broken sections etc. and is particularly effective where tree roots are a problem.

A common problem in drain runs is tree root intrusion. Seeking moisture, tree and shrub roots will be drawn by damp ground surrounding defective drains and penetrate cracks, open joints and broken pipework.

The growing roots will then force the defects further open and eventually form a dense ball, thriving on the nutrients in the drain, and eventually cause total blockages as well as destroying the fabric of the drain. As **DrainLINER** is tough, watertight and joint-less it is impervious to root intrusion.



WHAT IS DrainLINER ?

DrainLINER is soft, non-woven needle felt backed with polyurethane. It is supplied as a flat "sock" which is then impregnated with a polyester resin on site. The soft, wet liner is moulded against the wall of the old pipe by a water or air filled inner bag and then allowed to cure, forming a completely new, thin walled pipe within the old drain. This type of liner is sometimes referred to as "cured-in-place-pipe (CIPP)" or "felt-resin liner".



HOW IS IT INSTALLED?

Initially the drain is thoroughly cleaned and all debris removed. The drain is then inspected with a television camera to check that cleaning has been thorough and to confirm that the drain is ready for the **DrainLINER** to be installed.

Work is carried out from access points (normally manholes) either end of the damaged drain. The soft, resin impregnated liner is inserted into the drain and pulled into position.



Being pulled into drain

Either an air-blowing machine or a scaffold tower is placed at the entry point; a PVC hose is inverted to form a double-skinned tube and the end is inserted into the neck of the liner. The hose is then filled with air (or water) between the skins and the pressure forces the tube down the liner, pressing it against the walls of the old pipe.



The resin then cures and the PVC inflation hose is removed to leave the tough, resilient continuous 'pipe within a pipe' that we call **DrainLINER**



Liner inside clay pipe

THE MAJOR BENEFITS OF DrainLINER

As **DrainLINER** is smooth walled and joint-less its improved flow qualities more than compensate for the minor cross-sectional loss.

It has high chemical resistance and is therefore suitable for most industrial applications.

It is flexible and will tolerate some ground movement, which would fracture conventional salt-glazed clay pipes.

It is very versatile; small localised patches can be installed or complete runs relined.

It is impervious to tree root penetration.

It is quickly installed; most liners are completed within 2-3 hours.

It is suitable for even the most inaccessible locations. One van carries all the equipment and materials needed to complete the works.

As normally no excavation is required, **DrainLINER** can be installed in places where conventional repairs would be impossible and of course there is no need to reinstate trenches through gardens, lawns, tarmac, floors etc.

DrainLINER is installed by highly trained and experienced personnel working from a fully equipped van.