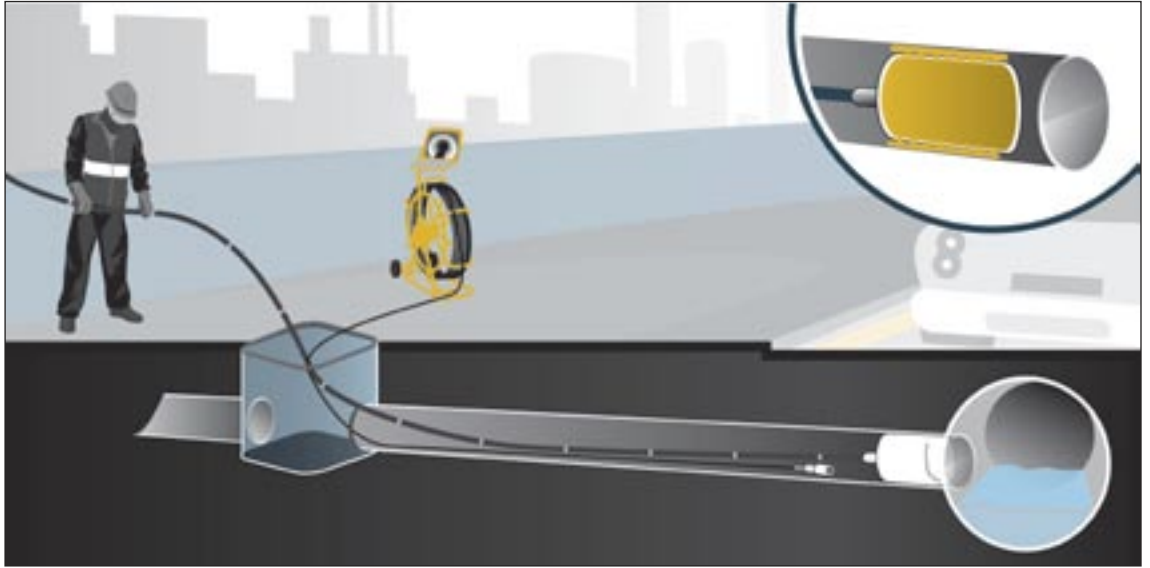


PIPE SEALANT SPECIALISTS FOR OVER 25 YEARS

DRAINBLOCK BAG™

A technique for remotely sealing off disused drain and sewer laterals
(Patent applied for)



The DRAINBLOCK BAG™ is based on our highly successful FOAMPACK™ system which is widely used and well proven for flow stopping in the gas distribution industry.

SYSTEM DESCRIPTION

A semi-porous bag is positioned at the point where the disused lateral drain or sewer meets the parent main. A sealed sachet containing PU resin foam is placed in the bag. As the foam expands, the sachet is pierced and the foam fills the bag. At full expansion some of the foam seeps through the bag to adhere to the inner walls of the pipe to form a permanent plug. If required, the entire abandoned section of pipe can then be filled with foam or grout.

The lateral is accessed at a non-sensitive location. Wherever possible this should be via a manhole but if an excavation is necessary this can be made in the footpath away from traffic hazards, or in another nonsensitive position. A CCTV camera is used to locate the optimum position in which to place the DRAINBLOCK BAG™ and to monitor the process.

APPLICATIONS

For use on clay, concrete and plastic pipes up to and including 6"/150mm diameter. Ideal for use by Council contractors, water and sewerage companies, facilities management and maintenance teams.

- For use on disused drains, sewers, relocated WCs, abandoned ducts etc
- Prevents the ingress/egress of water
- Stops the passage of odour
- Discourages the movement of rats and other vermin

BENEFITS

- Avoids excavating in the roadway—bag can be installed 15 metres from point of access
- Prevents ground water from entering sewers
- Avoids erroneous/unauthorised connection to clean water drainage systems via disused laterals
- No risk of sealing material entering main
- Easy to use—available in kit form

PRODUCT DESCRIPTION

The DRAINBLOCK BAG™ kit comprises:

- A semi-porous, zipped fabric bag fitted with a nylon tube to receive drain rods (for positioning)
- An inner zipped bag for restraining the foam during initial expansion
- A FOAMPACK™ sachet containing PU foam resin and hardener (the two components are separated in the sealed sachet by a central strip which is removed for mixing).
- A steel knife which is placed in the restraining bag to pierce the sachet as it begins to expand

METHOD

A CCTV camera is used to locate a suitable position for the DRAINBLOCK BAG™. A set of drain rods is assembled to the desired length (a Cobra rod may be used if there is limited access).

The two-part resin foam is mixed in the FOAMPACK™ sachet and is zipped into the restraining bag together with the piercing knife. These are then placed in the outer DRAINBLOCK BAG™ and the zip closed. The bag must now be used immediately.

The assembled drain rods are attached to the nylon tube on the bag and the bag is pushed into position with the aid of the CCTV camera.

As the foam expands, the knife pierces the sachet allowing the foam to fill the inner and then outer bag. At full expansion, some of the foam seeps through the bag to create an adhesive seal against the pipe wall.

CURING TIME

The DRAINBLOCK BAG™ will start to act as a permanent seal against water and odours within around 30 minutes depending on temperature. A full cure will be achieved in approximately 12 hours.

SPECIFICATION

DRAINBLOCK BAG™ comes in convenient kit form with everything required to carry out the sealing operation. Standard kits are available for 100mm (4”) and 150mm (6”) diameter pipes. Other dimensions can be made to special order.

The DRAINBLOCK BAG™ technique is designed for use where the prevention of water ingress/egress or odour is a priority. It is designed to resist a head of water of up to 5 metres in height. The DRAINBLOCK BAG™ technique has been developed to

meet the requirements of “The Drain Repair Book—2nd edition” and the “Civil Engineering Specification for the Water Industry—6th Edition”.

A patent application has been filed for the DRAINBLOCK BAG™ technique.

Once mixed, the PU foam is inert and can be disposed of with normal waste.



The DRAINBLOCK BAG™ kit comprises an outer bag, restraining bag, FOAMPACK™ sachet and piercing knife



The PU resin and hardener are mixed in a sealed sachet—avoiding contact with the product



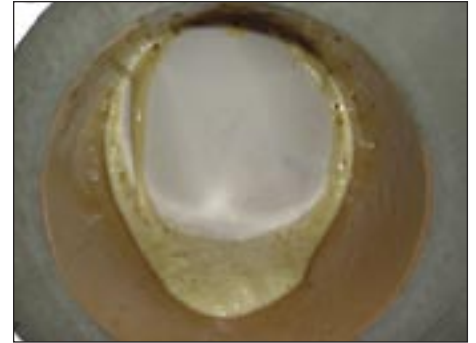
The folded sachet is then placed into the inner restraining bag with the piercing knife



The inner restraining bag is placed inside the outer DRAINBLOCK BAG™



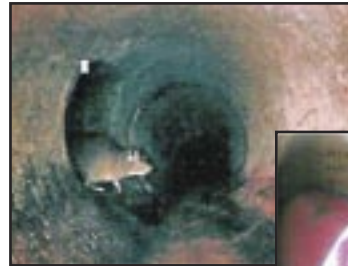
The DRAINBLOCK BAG™ in position in the early stages of expansion



At full expansion, some of the foam seeps through the bag to form a seal with the pipe



Where the priority is the preclusion of rats, we have a product called RATSTOP™ which has been used successfully for several years in Denmark and has been approved by the Danish government. The RATSTOP™ system uses a fabric bag placed remotely at the end of a disused lateral pipe but, instead of PU foam, it is filled with a specially formulated grout which is resistant to rats. The grout powder and hardener are mixed together in a Pressure Pot and the grout is pumped into the RATSTOP™ bag via a filler hose.



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