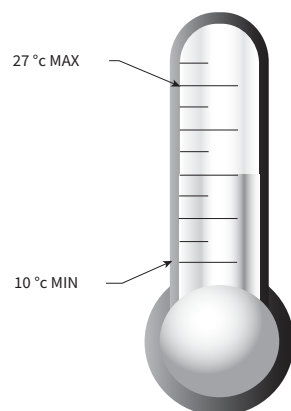


Familiarity with the thickness of the resin when in an acceptable temperature range is all that is usually necessary.

Before use in high summer, ensure that the resin and hardener temperatures are not allowed to exceed 27°C.



IMPORTANT: Before use, ensure resin and hardener are within the above temperature range. Do not stand in direct sunlight. Never allow to freeze.

HEALTH AND SAFETY

Please refer to labels on the resin and hardener containers for correct handling procedures.



INSTRUCTION LEAFLET

I 26

END SEAL™ KIT FOR DEAD INSERTION

Please read ALL instructions before commencing.

UK only: use in conjunction with relevant GDN Engineering Procedure.

Note: Not for use on live gas pipework. Use only on abandoned pipes to prevent gas/water ingress or tracking.

CHECKLIST

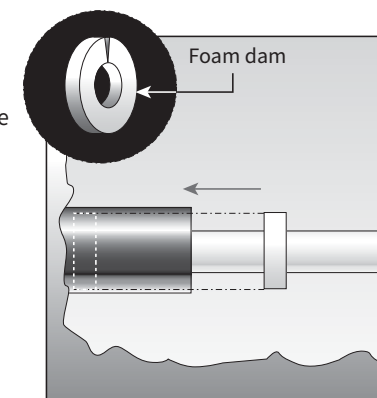
Ensure you have everything necessary to carry out this procedure:

Kit contents:

- Tub resin (more than 1 unit supplied with larger size kits)
- Bottle hardener (more than 1 unit supplied with larger kits)
- 1 x Spatula
- 1 x Foam dam
- 1 x End Seal™ muff
- 2 x Pair of gloves
- 1 x Waste disposal bag
- 1 x Securing tie

PROCEDURE

1. Remove all loose debris from the inside of the cast/steel pipe to be filled for a length of approximately 1.0 metre or as long as practical. Remove as much loose scale and rust as possible with a wire brush. Ensure that the bore is as dry as possible.
2. Slot the circular sponge dam over the PE and insert it into the main to the length of the mixing spatula provided. Ensure it sits firmly in contact with the bottom of the main to prevent the injected foam from running along the pipe.



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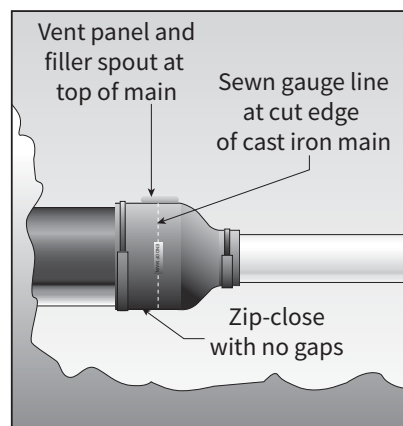
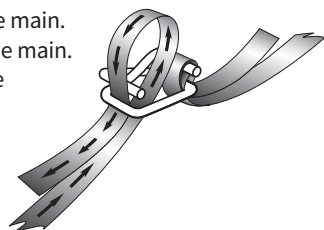
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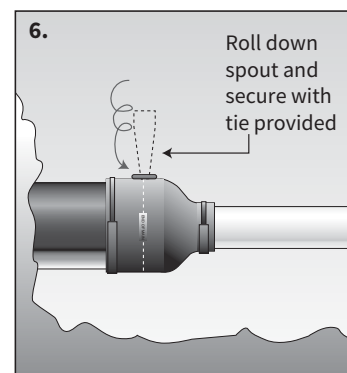
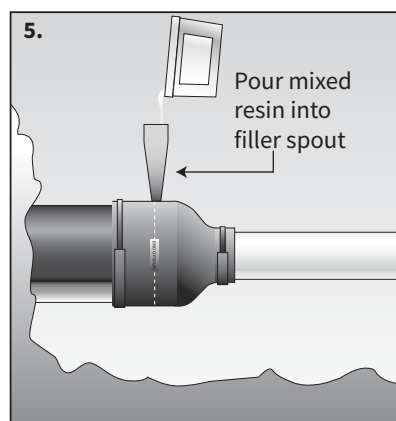
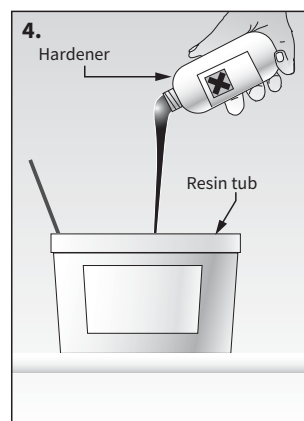


10.22

3. Place the fabric muff over the end of the main. Ensure the filler spout is at the top of the main. Close zip or velcro and hand tighten the securing straps.



4. Carefully open the resin tub and stir well with spatula. Open the hardener bottle and add all the contents to the resin tub. Mix vigorously and thoroughly for 45 seconds. **Mix time is important – time if possible.**



CURING

The foam will expand over a period from a few minutes in high summer to up to 30 minutes in cold winter weather. Avoid disturbing the PE pipe during at least the first 60 minutes of cure.

If more than one unit of foam is supplied with the kit, mix and inject the first unit and allow it a few minutes to expand before mixing and injecting the second unit.

It is recommended that the kits are fitted after the new PE main has been tied into the existing distribution system or after a service connection has been completed.

DISPOSAL

Add water to the hardener bottle until approximately one quarter full, squeeze in the sides, screw on the top and shake. Place the used container in the disposal bag together with the resin tub and cured foam. The waste bag should be disposed of in accordance with current policy.

STORAGE

Protect the kits from extremes of temperature. Long term storage must be in a frost-free store.

In very cold weather storage in a location where the temperature does not fall below 10°C is very desirable. Raising the temperature of the resin in a warm atmosphere is necessary if the kits have been stored in low temperatures. Do not heat the resin by use of a direct flame.

Do not attempt to heat the hardener.