

RESIN PACK 7A

POLYURETHANE DUCT SEALING FOAM SYSTEM

Application

Resin Pack 7A is used for sealing ducts not fitted with a caulking gland, against the ingress of gas and water.

Resin Pack 7A is supplied in bulk form with applicator syringe.

The resin base and hardener are mixed together in the syringe which also serves as the dispenser. With the mixture ratio and duct volume closely controlled, effective seals will be produced every time.

Kit Contents

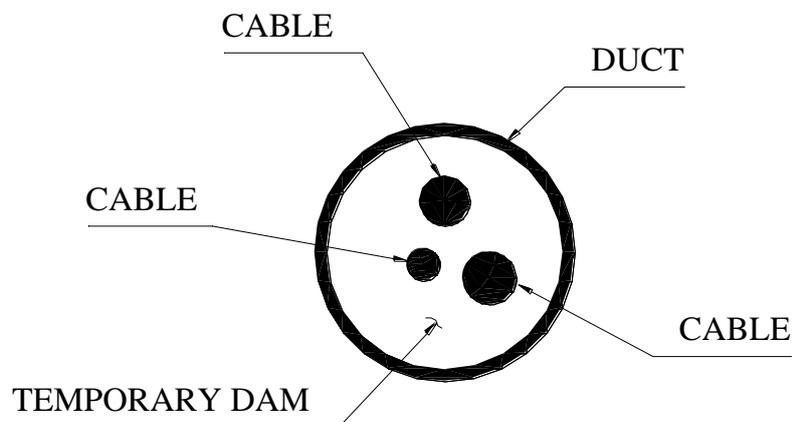
Contents:

- Base component
- Hardener component
- Syringe
- Tube

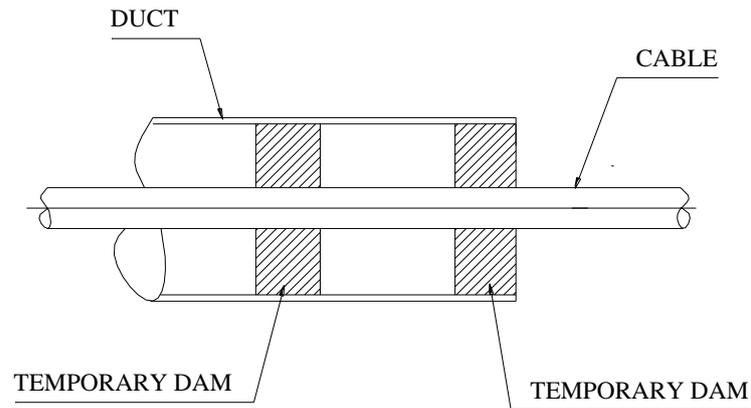


Application Method

1. Ensure the cables are kept apart (10 mm) and away from the wall of the duct by 6 mm.

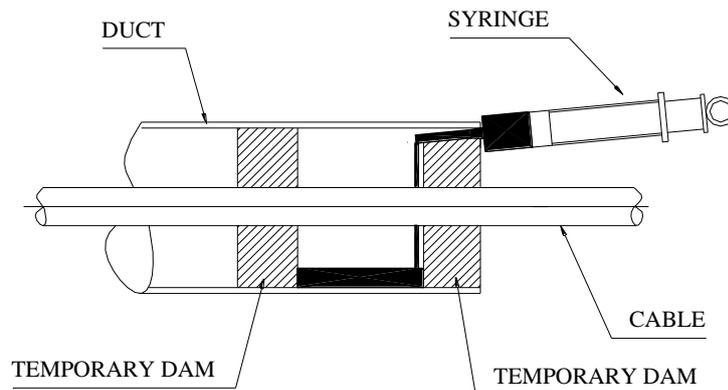


2. Form foam dams at front and rear of duct.



3. Mixing the Resin Pack 7A foam:

- 3.1. Remove lid of the hardener component.
- 3.2. Pour the required quantity into syringe (50% total volume required).
- 3.3. Remove lid of the base component.
- 3.4. Pour the required quantity into syringe (50% total volume required)
- 3.5. Mix material vigorously for 30 seconds to induce air into the mixture.
- 3.6. Replace plunger and fit plastic tube.
- 3.7. Squeeze syringe and allow the contents to drain into the cavity.
- 3.8. Clean syringe.



6. Do not move the cables for a minimum time of 1 hour after filling. After 24 hours trim off any surplus cured foam if desired.
7. To remove the seal use a long flat blade screwdriver, or similar, making a hole through the foam. A thin blade saw can then be used to cut around the duct wall or create a hole for the insertion of another cable.

Note: When carrying out this operation extreme care must be taken not to damage the cable sheath.

Resin Pack 7A volume required

| <u>Diameter of empty duct</u> | <u>Qty of resin & Hardener</u> | <u>No of mixes</u> | <u>Length of cavity</u> |
|---|------------------------------------|--------------------|-------------------------|
| 107mm | 40ml_40ml | 1 | 94mm |
| Up to 155mm | 40ml+40ml | 2 | 94mm |
| Up to 200mm | 45ml+45ml | 3 | 94mm |
| | | | |
| 107mm with one cable 50mm in diameter | 30ml+30ml | 1 | 94mm |
| 107mm with tow cables 50mm diameter or one 75mm cable | 20ml+20ml | 1 | 94mm |
| Up to 155mm with one cable 75mm diameter | 35ml+35ml | 2 | 94mm |
| Up to 155mm with two cables 75mm diameter | 45ml+45ml | 1 | 94mm |
| Up to 200mm with three cables 75mm | 40ml+40ml | 2 | 94mm |

Test Requirements and Results

The ALH Systems Limited, Resin Pack 7A fully complies with the British Telecom Specification M225B and is fully approved by British Telecom.

| CLAUSE | TEST | SPEC REQUIRED | RESULTS |
|--------|------------------------|---|--|
| 4.2.1 | Cream time | Between 30 and 70 seconds. | 60 seconds |
| 4.2.2 | Compressive strength | ≥ 0.3 Mpa. | 0.42 Mpa. |
| 4.2.3 | Volume increase | Volume of resin to be between 10 and 15 times the total volume uncured component. | Increase is 11-12 times total volume. |
| 4.2.4 | Cure | To be set to a cured state within 5 hours @ 20°C and 24 hours @ 5°C. | Material cures within set limits. |
| 4.2.5 | Affect on cable sheath | No adverse affect on polyethylene. | No adverse affect on Polyethylene. |
| 4.2.6 | Apparent density | 60-100kg/m ³ | 67kg/m ³ |
| 4.2.7 | Performance test | Seal to withstand a 3 metre head of water for 24 hours without leakage. | Seal will withstand a 3 metre head of water without leakage. |

For further information contact:



ALH Systems Limited
1 Kingdom Avenue, Northacre Industrial Park, Westbury, Wiltshire, BA13 4WE England
Tel: (44) 1373 858234
Fax: (44) 1373 585235
email: sales@alh-systems.demon.co.uk