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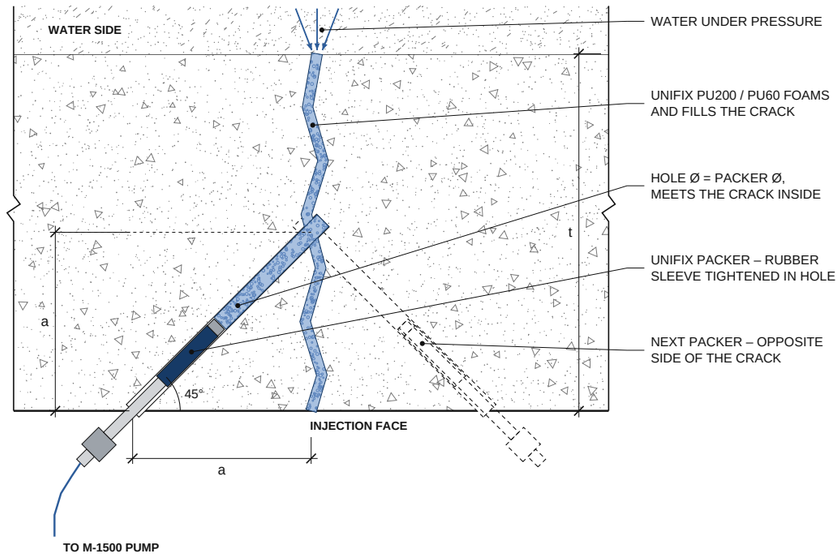
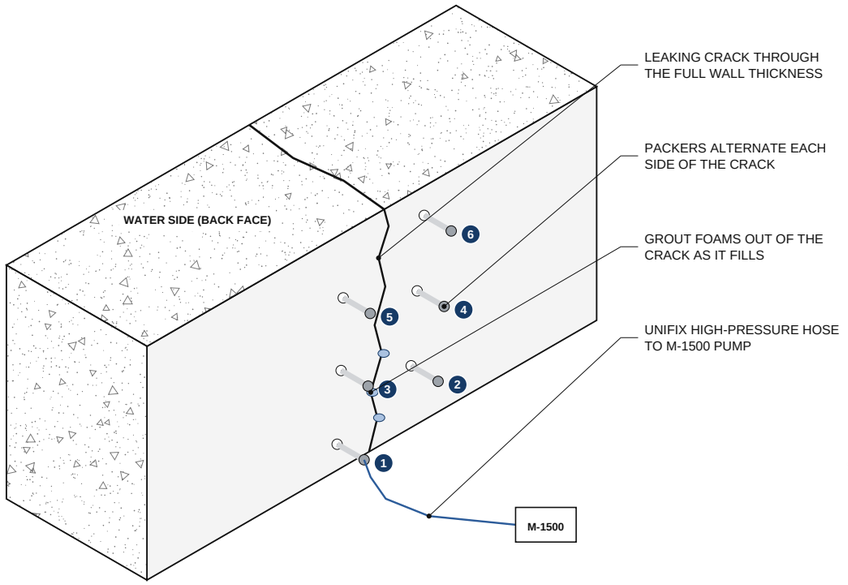


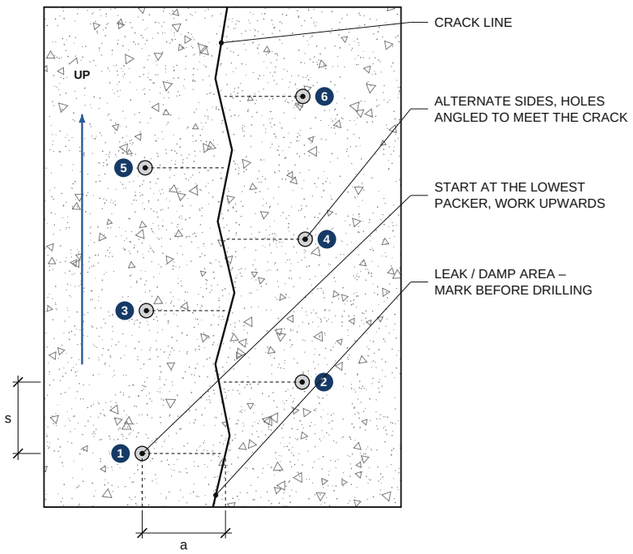

## 1 SECTION THROUGH CRACK

INJECTION FROM THE DRY (INSIDE) FACE



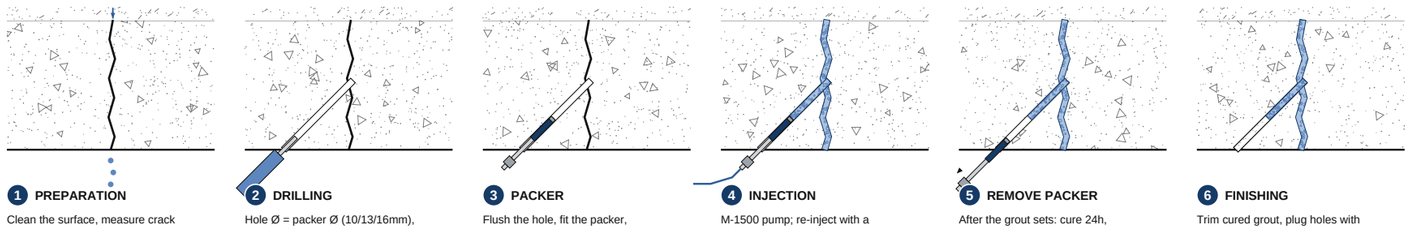

## 2 PACKERS ON A LEAKING WALL

3D VIEW – NUMBERS = INJECTION ORDER



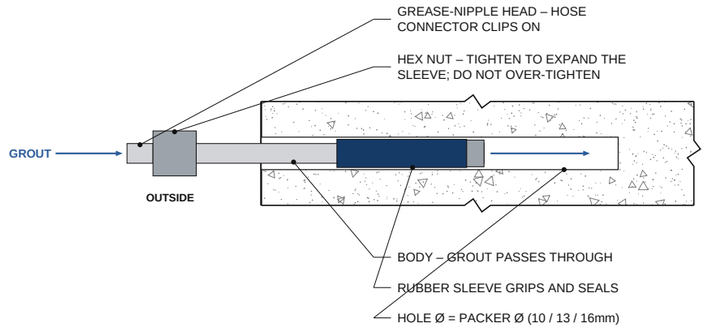

## 3 PACKER LAYOUT

ELEVATION ON THE INJECTION FACE




## 4 INJECTION SEQUENCE

AS TDS METHOD STATEMENT – NOT TO SCALE




## 5 UNIFIX PACKER IN THE HOLE

ENLARGED – TYPICAL

## UNIFIX PU GROUT (REFER TO TDS)

| PROPERTY | UNIFIX PU200 | UNIFIX PU60 |
|---|---|---|
| **Type** | Oil-based hydrophobic | Water-activated hydrophilic |
| **Cured foam** | Dense rigid closed-cell | Highly flexible foam |
| **Expansion rate** | 2000 – 3000% | 600% |
| **Elongation** | 5% | 250% |
| **Tensile strength** | 150 – 160 psi | 5 kg/cm² |
| **Viscosity** | 250 – 450 cps | 250 – 450 cps |
| **Gel / setting (25°C)** | 30 s / 300 s | 30 s / 300 s |
| **Linear shrinkage** | 5% | 20% |
| **Components / pack** | 1 / 10kg pail | 1 / 10kg pail |
| **Storage** | +5 to +30°C, dry | Dry and cool |

## UNIFIX PACKERS & M-1500

| PACKER | SIZE | PACKING |
|---|---|---|
| **A10** | 13 x 90mm | 50 / bag |
| **A15** | 13 x 130mm | 50 / bag |
| **A20** | 13 x 180mm | 50 / bag |
| **A25** | 13 x 240mm | 50 / bag |
| **A30** | 13 x 280mm | 50 / bag |
| **B8** | 10 x 80mm | 100 / bag |
| **B10** | 10 x 100mm | 100 / bag |
| **Head** | A10 / B10 conn. | 10 / box |
| **Hose** | 5m, 0 – 10,000 psi | |
| **M-1500** | Max. 15,000 psi | 10kg |

## GENERAL NOTES (FOR GUIDANCE ONLY)

1. Inspect the leak, clean the surface and measure the crack width and the element thickness. Mark the crack and the leak points.
2. Drill holes the same diameter as the packer (10 / 13 / 16mm) at approx. 45° so that each hole meets the crack inside the concrete, alternating each side of the crack. TDS: start approx. 40 – 50mm from the leak – a 45° hole meets the crack at a depth equal to its offset 'a'.
3. Flush the holes with air or water, insert the packers and tighten the rubber sleeves securely – do not over-tighten (packer damage).
4. Inject with the M-1500 pump from the lowest packer upwards. TDS: hold the pressure at 5000 psi for a few minutes before moving to the next packer; re-inject through a new packer where needed until no leak remains.
5. UNIFIX PU200 (rigid, high expansion) is used as the first injection to stop running water and fill voids; UNIFIX PU60 cures to a flexible foam.
6. After the grout has set, cure 24 hours, remove or break the packers, trim the exposed foam and plug the holes with a suitable mortar.
7. Clean the pump and hose with thinner immediately after use – never water. Store the grout dry; keep water away from the resin before use.
8. Flammable liquid: no flames or smoking, ventilate, wear goggles, gloves and a full face shield during injection.
9. PU injection seals against water ingress only – it is not a structural repair. Structural cracks to be assessed by the engineer.

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**REVISIONS**

| REV | DATE | DESCRIPTION |
|---|---|---|
| 0 | 29/10/26 | FIRST ISSUE |

PRODUCT
**UNIFIX PU200 HYDROPHOBIC PU GROUT**
**UNIFIX PU60 HYDROPHILIC PU GROUT**
**UNIFIX PACKERS / M-1500 INJECTION PUMP**

DRAWING TITLE
**UNIFIX PU CRACK INJECTION LEAK SEALING OF CONCRETE CRACKS**

DRAWING NO.
**UR-FX-04**

REV
**0**

| SCALE | SIZE | DATE | DRAWN |
|---|---|---|---|
| NTS | A3 | 29/10/26 | UR |

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