UNIFIX - PU200

SINGLE COMPONENT OIL-BASED HYDROPHOBIC RIGID PU GROUT



Product Features

UNIFIX-PU200 is a high-performance, hydrophobic hydro-active injection grout formulated from an MDI (methylenediphenylisocyanate) polyurethane base. Engineered for rapid water-stopping applications, it features an exceptionally fast reaction time paired with high tensile strength.

Upon contacting water, **UNIFIX-PU200** initiates a rapid foaming and expansion process that fills deep cracks and voids, effectively halting active leaks within seconds. Its superior seal-forming capability and proven reliability make it one of the most trusted choices among professional contractors for heavy-duty concrete waterproofing.

Advantages

- **Fast Leak Arrest:** Expands rapidly on water contact to stop active leaks within seconds.
- **Hydrophobic Barrier:** Cures into a water-repellent seal that will not absorb water post-cure.
- **High Tensile Strength:** Withstands heavy hydrostatic pressure and structural stress.
- **Rapid Reaction:** Accelerates repairs with fast-acting expansion in cracks and voids.
- **Industry-Proven Reliability:** Widely preferred for severe concrete waterproofing applications.

Fields of Application

- Permanent sealing of non-moving cracks in basement walls and slabs that are damp rather than running
- Filling large voids and cavities behind tunnel linings and walls
- Sealing construction joints and static cracks that go through wet-dry cycles
- Sealing gaps around pipes, ducts and structural penetrations, repairing leaks in culverts, drains and box culverts
- Crack injection in roof slabs, podiums and planter boxes where wetting is occasional

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UNIFIX - PU200

Physical Properties

Material	:	MDI Polyurethane
Appearance	:	Dark Brown
Packing	:	10 kg / pail

Technical Properties

Elongation	:	5%
Tensile Strength	:	1.03 - 1.10 MPa (150 - 160 psi)
Adhesive Strength	:	0.21 MPa (30 psi)
Corrosiveness	:	Non-corrosive
Storage T.P. 20°C	:	12 months
Toxicity	:	Cured material is essentially non-toxic
Shrinkage	:	No changes
Gel Time	:	30 sec (25°C)
Setting Time	:	648 sec (25°C)
Solid	:	80%
Density , g/ml	:	1.12 g/cm³
Viscosity	:	570 cps
Weight Per Gallon	:	9.17 lb
Expansion Rate	:	2000 - 3000%

- The technical properties detailed above reflect the final performance characteristics of the fully cured material.

Important Note / Special Note

- Flush the pump, hose and tools with xylene only. Do not use water: it reacts with the resin and blocks equipment.
- **Do Not Overtighten:** Tighten injection packers carefully to a secure fit only; excessive torque can damage the packer.

This technical data sheet is given in good faith and does not guarantee the application work.
All Unity Reliance technical data sheets & method statements are updated on a regular basis and can be subject to change without notice.
It is the user's responsibility to obtain the latest version of the information required.

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Accessories



HIGH PRESSURE INJECTION MACHINE M-1500



HIGH PRESSURE INJECTION HOSE



PACKERS & CONNECTORS

Shelf Life & Storage

UNIFIX-PU200 SHOULD BE STORED IN A DRY AND COOL PLACE AT AROUND 20°C. Temperature above 50°C may cause premature formation of insoluble solids. **UNIFIX-PU200** maintains a shelf life of **12 months** when stored unopened in its original, undamaged packaging under dry, cool conditions away from direct sunlight.

Health & Safety

Contains isocyanates. Flammable liquid before cure. Avoid contact with skin and eyes; use gloves, goggles, and protective clothing. Use full-face protection during injection. Ensure adequate ventilation. Refer to the Safety Data Sheet (SDS) for detailed guidance.

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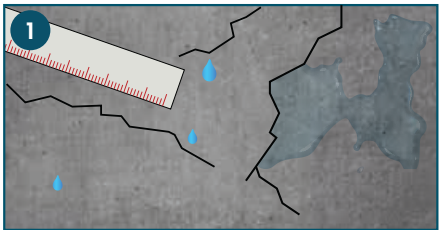
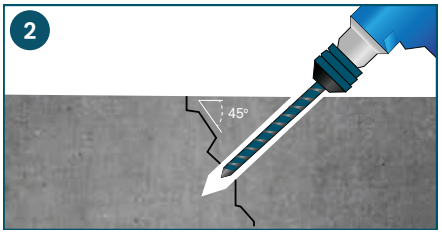
Installation Procedures

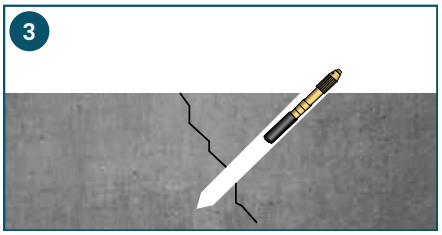
1 Surface Preparation | 2 Injection | 3 Finishing



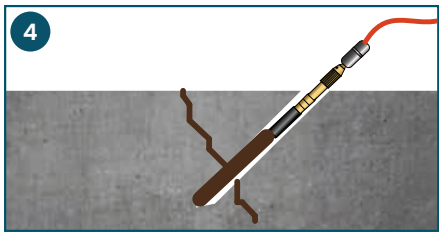
PREPARATION



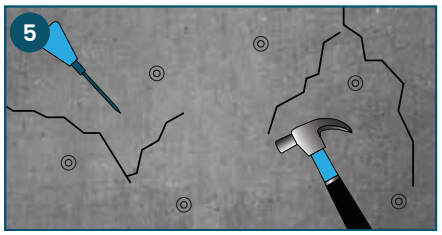
DRILLING



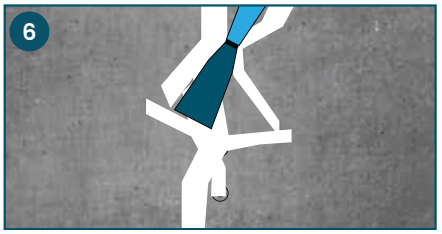
PACKER INSTALLATION



INJECTION



REMOVING OF PACKER



FINISHING

Step 1
SURFACE PREPARATION

1 Preparation
Clean the concrete surface, measure the width and thickness of the crack and inspect the leakage condition of the structure.

2 Drilling
Drill 10 mm or 13 mm holes about 40–50 mm away from the leaking spot at about 45° until the hole intercepts the crack or leaking point. Use a drill bit of the same diameter as the injection packer.

Step 2
INJECTION

3 Packer installation
Clean the drilled hole with an air blower or water, insert the packer and tighten the rubber sleeve securely. Do not over-tighten, as the packer may be damaged.

4 Injection
Inject UNIFIX-PU200 with the M-1500 high-pressure injection machine and hold the pressure at 5000 psi for a few minutes before moving to the next point. Re-inject points as needed, replacing used packers, until the crack is fully filled and no leakage remains.

Step 3
FINISHING

5 Removing of packer
Allow UNIFIX-PU200 to cure for 24 hours, then remove the packers by breaking them off with a plier or hammer.

6 Finishing
Remove cured grout from the surface and plug all holes with suitable mortar. Flush the pump, hose and tools with xylene immediately after use to prevent blockage. Do not use water: it reacts with the resin.

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No.135B, Jalan Kip 8,
Kawasan Perindustrian Kepong
52200 Kuala Lumpur

(+60) 3-6734 7941
(+60) 10-785 1159

enquiry@unityreliance.com
https://www.unityreliance.com

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