

Product Description

PU1000 is a one component, water-activated hydrophobic polyurethane injection grout designed to stop water leakages. When PU1000 comes in contact with water, it reacts and creates dense, closed and fine cell foam that prevents water passage. It is designed to increase efficiency and usability. The Flexible and fine closed-cell foam can withstand small tremble or movement resulting in effective and durable repair.



Uses & Applications

PU1000 is typically used to stop water leakages coming through cracks or honeycomb concrete voids. It is used in conjunction with high pressure injection pump. It can be used in the following areas and applications:

- Concrete joints and cracks.
- Defective concrete (cracked or honeycomb).
- Potable water tank, waste water tank, and Pool.
- Pipe intrusion.
- Basement.
- Tunnels, dams.
- Sewers, manholes, utility boxes.
- Soil stabilization

Key Benefits

- Low viscosity offers superior penetration through narrow or hairline cracks.
- One component, no require on site mixing.
- Closed and fine cell foam results in best waterproofing ability.
- Seal cracks quickly and efficiently.
- Cured material not affected by water or dryness.
- Good chemical resistance.
- Flexible and good adhesion to concrete.
- Non-toxic once in cured form.

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Technical Data

Properties	PU1000
Appearance	Dark brown liquid
Viscosity at 25 °C, Brookfield	150-400 cps
NCO Value	11.5 – 12.5 %
Operating temperature	20 – 40 °C
Free rise density	0.03 – 0.05 g/cm ³
Expansion Rate	30 times
Rise time	30-80 sec

Application Instructions

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Surface Preparation

- All surfaces must be free from oil, grease, dirt and poorly adhering matter.

Installing the packers

- In order to inject resin into the cracks, it is necessary to install mechanical packers. Mark the packer positions and drill the holes, make sure they pass through the cracks. Depth of drilled holes should be somewhere between center of structure, if possible. Place packers in the previously drilled holes. If the packers can't be pushed into the hole, tap it in. Tighten the packers with a wrench as tight as necessary.

Injection

- Pump PU 1000 through the injection port until evidence of material begins to show on concrete surface. Inject from the bottom up. Wait for material rise up the cracks.
- After all ports are injected, repeat the steps by going back to inject each port once again. This may be repeated the third time if necessary, to ensure entire cracks has been treated.
- In dry crack, water maybe introduced to the drilled holes by using water gun to hasten reaction of polyurethane. With this, there will be enough moisture in the concrete to eventually cause the full cure.

Caution: This product is moisture activated. It is essential for all equipment to be dry. Avoid any moisture contact with the mixture to prevent premature reaction of the product. If reaction of the batch occurs while pumping, immediately shut down the machine and flush with cleaner to avoid built up and clogging of the equipment.

Cleaning up

- Tools and equipment must be cleaned immediately after use. Packers can be removed within one hour and the holes should be patched.

Safety Instructions

Wear appropriate protective equipment such as gloves, safety glasses or goggles, protective clothing during use. In case of eye contact: promptly wash eyes with plenty of water. Continue to rinse for at least 15 minutes and consult physician immediately.

Packing

18 kg. per pail

Storage & Shelf Life

Material must be kept in-door, avoid of direct sunlight and humidity. It should be stored at room temperature. Drum of remained chemical should be purged with Nitrogen and tightly capped. Chemical should be consumed within 12 months.

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Disclaimer: The information provided in this document is based on our knowledge and experience of the product. In actual application results may vary because of site conditions, application methods and other factors that beyond our control. Users are recommended to test out product performance before actual use. Any data contained in this document, including our sale person or staff consultation is in no way constitutes a warranty relative to the use of our products. Our general terms and conditions of sales shall prevail. The superseded version of this datasheet may be issued without prior notice. Customers and users are encouraged to check with our staffs for the latest version of this document.

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