

**Product Description**

PURFOAM is a water-activated hydrophobic polyurethane injection grout designed to stop water leakages. When PURFOAM 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**

PURFOAM 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, sewers, manholes, utility boxes, tunnels, dams.
- Soil stabilization.

**Key Benefits**

- Low viscosity offers superior penetration through narrow or hairline cracks.
- Expand up to 30 times of the original volume. Seal cracks quickly and efficiently.
- Closed and fine cell foam results in best waterproofing ability.
- Flexible and good adhesion to concrete.
- Good chemical resistance.
- Non-toxic once in cured form. Low VOC.
- Variable reaction time allows to be used in broad range of applications.
- Non shrinkage. Cured material not affected by water or dryness.

**Technical Data**

Properties	Component A	Component B
Appearance	Dark brown liquid	Yellowish liquid
Viscosity at 25 °C (cps)	50-400	0-30
Specific gravity at 25 °C	1.1 ± 0.1	0.94 ± 0.1
Flash point, °C	>156	N/A
Boiling point, °C	Generating CO2 at 260 °C	N/A
Freezing point, °C	-60	N/A
Solubility	Insoluble in water	Insoluble in organic solvent

CONCRETE REPAIR

CHARACTERISTICS (A+B)	RESULTS	TEST METHOD
Mixing Ratio	10:1 (A:B)	-
Appearance	Yellow-white Flexible Foam	-
Viscosity	210 cps	Brookfield Viscometer
VOC Content	33.6 g/L	ASTM D3960-05
Potable Water Test	Pass	Ministry of Public Health No. 61/2524, 135/2534
Cream time	4 – 8 sec.	ASTM D7487
Rise time	45 - 60 sec.	-
Free Rise Density @ 10:1 ratio	35 – 38 kg/m <sup>3</sup>	-
Expansion Rate	Approx. 30 times	-

Application Instructions

Surface Preparation

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

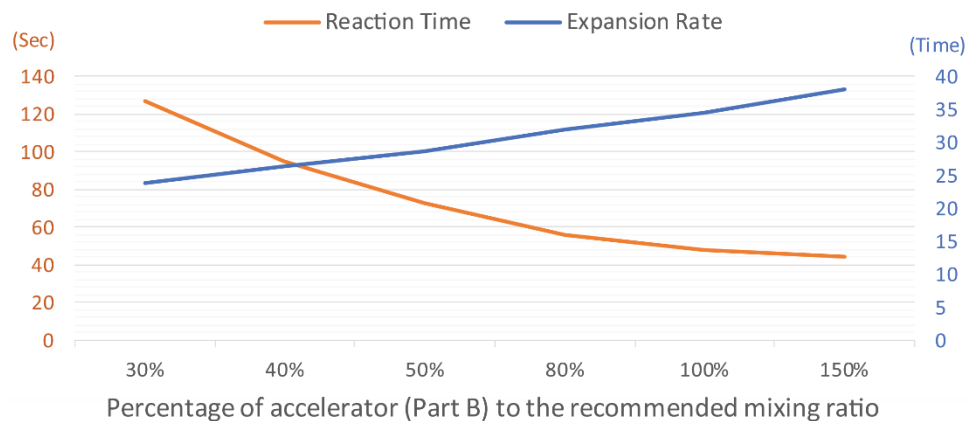
Installing the packers

- 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.

Mixing

- Mix PURFOAM part A (Resin) with part B (Activator) using the typical ratio 10:1. However, the amount of accelerator maybe increased or decreased as needed based on job site condition. Mix by stirrer until the chemical appeared homogeneous.

Purfoam Expansion Rate-Reaction Time on Variable Mixing Ratio



\* Value shown are laboratory data. In actual application, results may vary.

### Injection

- Pump PURFOAM 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

22 kg. per set.  
Part A 20 kg. per can.  
Part B 2 kg. per can.

### 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.

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.

CLEVCON (THAILAND) CO., LTD.  
14/12 Moo 5, Bung Kham Proi., Lam Luk Ka, Pathum Thani, Thailand 12150  
Tel: +66-2-569-1540 • Fax: +66-2-569-1541  
Email: [clevconthailand@gmail.com](mailto:clevconthailand@gmail.com) • Website: [www.clevconthai.com](http://www.clevconthai.com)



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