CASAFOAM PU INJECTION

CasaFoam is a water-activated hydrophobic polyurethane injection grout designed to stop water leakages.

CasaFoam 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.

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.

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

segue

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^3	-
Expansion Rate	Approx. 30 times	-

Application instruction:

- All surfaces must be free from oil, grease, dirt and poorly adhering matter.
- 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 the centre 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.
- Mix CasaFoam 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.
- Pump CasaFoam 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 a 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:
The 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.

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

Storage:
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.