

ShaliGrout® PU F

Polyurethane Based Single Component Semi Flexible Grout



STP Limited

Description

ShaliGrout® PU F is hydrophobic single component polyurethane which includes an active accelerator and exhibits a unique characteristic of reacting solely upon contact with water. This reaction results in the formation of non-toxic, semi flexible polyurethane foam.

Technical Characteristics at 27°C and 55% RH

Parameters		Specifications		
Appearance		Brown liquid		
Density, gm / cc		1.18 ± 0.05		
Viscosity, mPa.s		250 - 500		
Flash point, °C		>202		
Reaction*	Cream	Rise	Tack free	Expansion
Water 2%	25 sec	210 sec	650 sec	>8x
Water 5%	30 sec	250 sec	700 sec	>10x
Water 10%	45 sec	300 sec	750 sec	>12x

*Actual result may vary due to different environmental conditions

Field of Application

- Stoppage of heavy water flow into structures.
- Stoppage of water oozing from ground, dams and banks.
- Stoppage of Leaks from large and small caliber sewer pipes, concrete crack and expansion joints.
- Stoppage of Leaks into building structures, tunnel through shield lining.
- Back grouting, providing structural support and stability by filling voids and gaps behind structures.

Advantages

- It reacts with saline & mineral water, regardless of temperature.
- Short gel time produces highly tough and resilient gel.
- It forms a strong and elastic gel which is chemically stable and non-degradable. This ensures stoppage of water.
- It possesses excellent adhesiveness to applied materials.
- Even the smallest cracks and pores can be impregnated due to surface-active property and volume increase during reaction.

Application Methodology

- **ShaliGrout® PU F** can be easily pumped using a high pressure sensitive single component injection pump. However, it is essential to thoroughly clean the pump after the injection process.
- To ensure a homogeneous, it is recommended to roll or shake the drum before use and mix the resin using a dry clean drill and paddle mixer for at least 15 seconds before application.

Precautions

- For optimum results, it is advisable to condition the material to an appropriate temperature for a minimum of 12 hours before application.
- It is important to seal the containers tightly when not in use.

- Material should not be applied at temperature below 10°C to prevent potential crystallization issues.
- Precaution is required lest the injected **ShaliGrout® PU F** liquid should flow into river or other natural environment.
- The use of **ShaliGrout® PU F** should be limited to stopping seepage / flow of water during construction. It should not be used for any other application like stabilizing or reinforcing soil.

Cleaning & Maintenance

Clean tools and equipment with STP recommended cleaning agents immediately after use and before the resin sets. Once the resin is set, it can only be removed by mechanical means.

Health & Safety

- Use mask, nose cover and hand gloves during application.
- Clean hands with soap water after application.
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water, then cleanse with soap and lukewarm water and seek medical advice. Do not use solvent to clean the contacted area.
- Prevent swallowing. In case of unlikely swallowing, seek medical attention immediately. Do not induce vomiting.

Packing

Available in 20 kg bucket.

Storage

Store in cool dry place, under the shed, away from heat, water. Once a pack has been opened, use immediately.

Shelf Life

1 Year in original unopened sealed conditions when stored between 10°C - 38°C out of direct sunlight.



STP Limited
Enhancing Structures' Life

Product Range

- Waterproofing and Insulation ■ Road Surfacing
- Sealants and Additives ■ Pipeline Coating
- Protective / Anti-Corrosive Coating ■ Epoxy Flooring
- Grouts / Admixtures ■ RestoFix- Repair / Rehabilitation
- Other Construction Chemicals



Advisory Cell: +91 81302 81114