

Hydrophilic Polyurethane Grout

DMPU-S-GJ-O-510

Description

DMPU-S-GJ-O-510 is a one component non-shrink, semi-rigid hydrophobic polyurethane grout for cutting off gushing water leaks with a high flow rate and/or high hydrostatic pressure in applications where both high strength and flexibility are required.

Application

- Repairing existing leaky joints.
- Used to block leaks into diaphragm walls.
- Water-stop for new concrete structures
- Sealing leaks thro concrete cracks and joints subject to movement
- Injection through grout tubes to form a flexible water-stop in concrete joints.

Feature and Benefits

- Single component
- Contains no volatile solvents.
- Non-flammable, solvent free.
- Free Foam Expansion up to 10 times its liquid volume

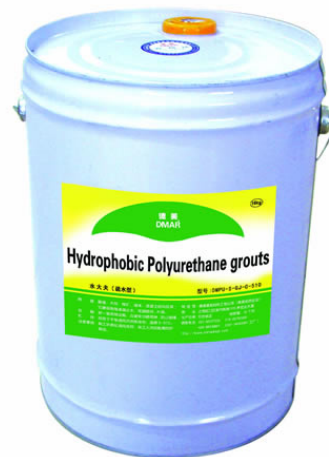
- Low viscosity permits injection into narrow to hair line cracks
- Excellent elongation creates tight seal in moving cracks.

Storage and shelf life

DMPU-S-GJ-O-510 hydrophobic polyurethane grout is 16kg metal drum sealed under dry nitrogen.

The chemicals should be stored inside warehouse at temperature range 15°C~26°C.

The shelf life is 12 months from date of manufacturing and in original sealed drums.



Performance Characteristics

Property	Value	Norm
Color	Pale yellow	
Solids	≥82%	78%
Viscosity at 25°C	180-260 mPa.s	ASTM D 2196 A
Density	≥1.05 g/cm ³	ASTM D 3574
Shrinkage	Non-shrink	ASTM D 1042
Toxicity	Non-toxic	

Surface preparation

- Remove surface contaminants and debris to establish the pattern of the crack or joint.
- Drill holes of the correct diameter for the selected packer.
- Drill at an angle of 45°preferably the holes should be drilled staggered around the crack to insure good coverage of the crack in case it is not perpendicular to the concrete surface.
- The depth of the bore should be approximately 1/3~3/2 of the thickness of the concrete.
- Distance between holes can vary by 200 to 300mm, depending on the actual situation.
- Insert the correctly sized packer into the hole up to 2/3 of its length. Tighten with a wrench or spanner by turning clockwise until sufficient tension has been reached to keep the packer in place during injection.

Installation Procedures

DMPU-S-GJ-0-510 should be pumped with S-812, F-512 or other electric high pressure pump or MG -808 pump. Prior to installation the material should be agitated by vigorously shaking mixing. During injection the grout will follow the path of least resistance. When the material has stopped penetrating, it will continue to expand against the confines of the joint and compress within itself, forming a very dense, closed cell material stopping the leak.

Injectable tubes should be adequately flushed with water prior to the injection of the grout. Pour the desired amount of DMPU-S-GJ-0-510 into a clean pail and pump with airless spray equipment.

Limitation

Low temperatures will significantly affect viscosity. If site temperatures are extremely low, heat bands or heated water baths may be used on the pails before and during installation to maintain the product's temperature. Avoid splashing water into open containers, as the material is water activated.

Precautions

Always use protective clothing, gloves and goggles consistent with OSHA regulations during use. Avoid eye and skin contact. Do not ingest.

Store all materials and equipment safely and out of reach of children! Observe container labels, MSDS, and instructions in the Product Catalog before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations.