

1K Hydrophobic Polyurethane Injection Grout

DESCRIPTION

DANOINJECT PUR is a hydrophobic polyurethane resin based grout which gets hydro activated in presence of moisture / water to a closed cell rubber like foam while expanding its volume up to 27 times.

Since, water is not a component of foam structure, the cured foam material essentially not get effected by water or dryness nor it undergoes shrinkage or swelling, thus maintaining its expanded volume.

Depending upon the injection pressure, the grout reacts to form very dense closed cell foam.

Injection grouting with **DANOINJECT PUR** is an effective means of cutting-off gushing water of high pressure and stopping water seepage.

As **DANOINJECT PUR** is designed to stop high pressure gushing water, it is recommended to use **DANOINJECT PUR 2K** for more satisfying and permanent sealing.

DANOINJECT PUR can be effectively used as non-shrink, high strength soil stabilization grout, provided the moisture content of soil is sufficient to ensure complete reaction.

ADVANTAGES

- Quick and controlled reaction time.
- Good chemical resistance.
- Reacts suitably with saline and potable water.
- Environmentally safe.
- Deep penetration and sealing in cracks, cavities and voids.
- Good adhesion to surfaces.
- Suitable for back grouting (negative side application)
- Reacts quickly to stop high water flow.
- Inert after curing does not undergo shrinkage or swelling.

USES

DANOINJECT PUR is use as hydrophobic injection grout for sealing against infiltrating and gushing water in various areas such as:

- Tunnels and metro subways
- Dams and other water retaining structures such as water tanks, water reservoirs etc.
- Basements, elevator pit, and other sub-structures.
- Soil stabilization.
- Pipe joints and pipe intrusions.
- Joints in concrete, brickwork & limestone construction.
- Repair of defective concrete trough filling and sealing action in cracks, honeycombs etc.
- Sewers, manholes, utility boxes etc.
- Shaft constructions.

PHYSICAL PROPERTIES*

Properties	Values
Form	Liquid
Colour	Dark Brown
Solubility in Water	Hydrophobic
Density (g/ml)	1.12
Viscosity	100-200 mPa.s
Max. Volumetric Expansion (25°C)	2700% Ratio 10:1 (Resin: Water)
Induction Time (25°C)	15 sec Ratio 2:1 (Resin: Water)
Gel Time (25°C)	110 sec Ratio 2:1 (Resin: Water)
Tensile shear strength (23°C)	4 N/mm ²
Appearance	Light yellow PU foam
Corrosiveness	Non-corrosive
Chemical Resistance	Resistant to solvents, mild acids and alkalis

*Properties may vary in presence of moisture / water during reaction.

APPLICATION

Depending upon the project requirement and site conditions, **DANOINJECT PUR** is injected using a high-pressure grouting injection pump.

As per the project requirement and site conditions, drill and position the holes of required diameter and injection packers.

If the area of application is totally dry, then pre-injection of water may be necessary.

Before using the injection grout pump, ensure that all components of injection grout pump are dry.

Prevent contact of grout with moisture / water prior to injecting to prevent pre-mature reaction.

Inject the grout in to the holes at required pressure in intervals to arrive at a point as to conclude whether further grout injection is required or not.

Immediately after completing the injection process, secondary injection can be carried out through same injection ports using **DANOINJECT PUR 2K** for more satisfying and permanent sealing.

After thorough injection and sealing and curing process, remove the injection packers and seal the holes using plugging or repair mortar.

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CLEANING

Immediately after application, use suitable aromatic solvent for cleaning application tools.

SUPPLY

DANOINJECT PUR is supplied in 10 Kg. pack size. It has a shelf life of 12 months when stored under the covered shed in dry and sealed condition.

STORAGE

DANOINJECT PUR is both temperature and moisture sensitive. Store under the covered shed in dry condition with temperatures between 15°C to 30°C and protect from extremes of temperature, heat, direct sunlight, high humidity and children.

Storage above 30°C and high humidity >50% would result in reduced shelf life and performance.

SAFETY PRECAUTIONS

DANOINJECT PUR is non-toxic and non-flammable in nature. However, normal safety gadgets like goggles, gloves should be used while handling the material. Avoid prolonged contact with the skin, eyes, mouth, and food items.

VERSION: R3, 202203

