

# DANOINJECT PUR 2K

## Elastic Polyurethane Injection Resin Grout

### DESCRIPTION

**DANOINJECT PUR 2K** is a two component solvent free low viscous slow reacting polyurethane injection grout system consisting of a resin component and a special type of hardener.

This system is ideally suitable for the elastic sealing of cracks, joints, cavities in constructions made of concrete, bricks, natural stone etc., as well as to seal areas against water ingress.

When two components are mixed, it reacts and hardens to form a non-foaming, non-rigid elastic pore free material.

If the structure experiences gushing water through the joints, cracks or voids, it should be first sealed using water cut-off and foam seal injection hydrophobic PU grout **DANOINJECT PUF** followed by elastic sealing with **DANOINJECT PUR 2K** injection resin grout.

**DANOINJECT PUR 2K** is non-foaming, non-expanding type PU resin injection grout and is suitable for injection via packers or embedded injection hoses **TIKIPLAN RIH**.

### ADVANTAGES

The key benefits of using **DANOINJECT PUR 2K** are:

- Low viscous – deep penetration in to the cracks.
- Elastic & flexible - withstands crack movements and does not undergo low temperature embrittlement.
- Excellent adhesion with both dry and moist surfaces.
- Pore free injection grout that does not shrink.
- Durable solution to water seepage.
- Ecofriendly.

### USES

**DANOINJECT PUR 2K** is use to seal cracks, joints and cavities in construction elements thereby waterproofing various areas such as:

- Tunnel linings.
- Basement and below ground structures.
- Concrete tanks.
- Car parks.
- Pipe ducts and entry cables.
- Construction joints.
- Sealing of cracks.
- Permanent sealing of injection grouting.

### PHYSICAL PROPERTIES

Properties	RESIN Component	HARDENER Component
Colour	Yellowish	Dark Brown
Density, (g/cc)	1.05 ± 0.05	1.20 ± 0.05
Mix Viscosity @30°C	200 to 600 cps	
Mix Ratio by Volume	2	1
Pot Life at 20°C	130 to 150 minutes	
Shore A Hardness	40 to 60	
Mix Density	1.05 ± 0.05 g/cc	

### APPLICATION

**DANOINJECT PUR 2K** is injected using a high pressure grouting injection pump through injection packers or embedded re-injectable hoses.

**DANOINJECT PUR 2K** is suitable for use in dry / moist cracks / joints.

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

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

**DANOINJECT PUR 2K** is supplied as pre-weighed two components, ready to use at site. The components of shall be mixed by taking Resin component in a clean container followed by addition and gradual mixing of Hardener component using slow speed heavy duty electric stirrer to achieve homogeneous and uniform mix.

On vertical plane, begin injecting from bottom and on Horizontal plane, begin injection from left to right.

The prepared grout mix is than injected in to the cracks / joints / voids through injection packers / grout ports / re-injectable hose in to the holes at required pressure until the grout material comes out of the control holes.

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

## CONSUMPTION

Approximate 1050 Kg of grout mix is required to fill 1 litre of volume.

## CLEANING

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

## SUPPLY

**DANOINJECT PUR 2K** is supplied as two component in 16 Kg, pack, comprising of Resin Component: 10 Kg., and Hardener Component: 6 Kg. It has a shelf life of 12 months when stored under the covered shed in dry and sealed condition.

## STORAGE

**DANOINJECT PUR 2K** is both temperature and moisture sensitive. Store under the covered shed in dry condition with temperatures between 10°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 2K** 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.

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