

# DANOINJECT PUR 2K

## 2K High Strength Polyurethane Injection Resin Grout

### DESCRIPTION

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

This system is ideally suitable for the watertight sealing of wet and or/dry 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 strong rigid foam with non-shrink closed cell structure.

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 PUR** followed by sealing with **DANOINJECT PUR 2K** injection resin grout.

**DANOINJECT PUR 2K** is low expanding type water stop reinforcing grout that forms a durable stronger rigid PU foam.

### ADVANTAGES

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

- Low viscous – deep penetration in to the cracks.
- Suitable for injection using single component injector.
- Excellent adhesion with both dry and moist surfaces.
- Closed cell and pore free structure that does not shrink.
- Inert once cured.
- Excellent mechanical properties.
- Imparts permanent water stop effect.

### USES

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

- Tunnel
- Basement and below ground structures.
- Concrete tanks.
- Car parks.
- Subways.
- Construction joints.
- Permanent sealing of injection foam grouting.

### PHYSICAL PROPERTIES

Properties	RESIN Component	HARDENER Component
Appearance	Dark Brown Liquid	Clear liquid
Density, (g/cc)	1.2 ± 0.05	1 ± 0.05
Viscosity, cP	≈250	≈205
Mix Ratio by Weight	Resin: Hardener - 1:1	
Pot Life at 25°C	30 to 60 minutes	
Volumetric Expansion	≈100 %	
Compressive Strength	≥50 MPa	
Tensile Strength	≥16 MPa	
Tensile Shear Strength	≥7 MPa	
Full Cure	24 Hours	

### 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 then 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 1.10 Kg of grout mix is required to fill 1 litre of volume.

## SUPPLY

**DANOINJECT PUR 2K** is supplied as two components comprising of Resin Component: 20 Kg., and Hardener Component: 20 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-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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