

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.

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.

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.

VERSION: R3, 202203

Disclaimer: The technical information, and, in particular, the recommendations relating to the application and end-use of Tiki Tar Danosa (TIKIDAN) products, are given in good faith based on TIKIDAN's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with TIKIDAN's recommendations. The information herein is of a general nature and no assumption can be made as to a product's suitability for a particular use or application and no warranty in respect of merchantability or of fitness for a particular purpose can be inferred from this information. The user alone is fully responsible for the product's suitability for the intended application and purpose. TIKIDAN reserves the right to change the properties of its products.

Note: Field service where provided does not constitute supervisory responsibility. Suggestions made by TIKIDAN either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not TIKIDAN, are responsible for carrying out procedures appropriate to a specific application. TIKIDAN reserves the right to amend the composition of its material and consequently their prices, without prior notice. For this reason, all orders will be accepted only in accordance with the conditions and technical specifications in force at the date of order. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

TIKIDAN (INDIA) PRIVATE LIMITED

Tiki Tar Estate, Village Road, Bhandup (W), Mumbai - 400 078,

Maharashtra, India. T: +91 22 4126 6699

E: info@tikidan.in | W: www.tikidan.in



ISO 9001:2015