

DANOINJECT PUF 2K

2K Hydrophobic Polyurethane Injection Foam Seal Grout

DESCRIPTION

DANOINJECT PUF 2K is a solvent free, 100% solid polyurethane based versatile water activated, water cut-off and foam seal injection grout based on PU-MDI chemistry.

When the mix material is injected in to the voids, honeycombs, cracks, gaps, joints, etc., it gets hydro activated in presence of moisture / water to a soft foam while expanding its volume upto 15 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 gets activated in presence of water to form closed cell soft foam providing excellent waterproofing performance.

Injection grouting with **DANOINJECT PUF 2K** is an effective means of cutting-off dripping water stopping water seepage.

DANOINJECT PUF 2K can be effectively used as Non-Shrink, high strength soil stabilization grout, provided the moisture content of soil is sufficient to ensure complete reaction.

PHYSICAL PROPERTIES*

Properties	Part A Resin	Part B Hardener
Colour	Brown	Clear
Specific Gravity	1.140 ± 0.02	1.06 ± 0.02
Mix Ratio by Volume	1	1
Pot Life	≈ 3 hours	
Volumetric Expansion	≈15 times	
Setting Time	≈ 15 seconds	
B4 Cup Viscosity	≈ 45 seconds	

*Properties may vary based on the presence of moisture / water during 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 water flow.
- Inert after curing – does not undergo shrinkage or swelling.

USES

DANOINJECT PUF 2K is use as hydrophobic injection grout for infiltrating and dripping 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 and limestone construction.
- Repair of defective concrete trough filling and sealing action in cracks, honeycombs etc.
- Sewers, manholes, utility boxes etc.
- Shaft constructions

APPLICATION

Depending upon the project requirement and site conditions, **DANOINJECT PUF 2K** 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, than 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 mixed 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.

CLEANING

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

SUPPLY

DANOINJECT PUF 2K is supplied in 10 Kg. pack, comprising of **Part A Resin - 5 ltr.**, and **Part B Hardener - 5 ltr.**, It has a shelf life of 12 months when stored under the covered shed in dry and sealed condition.

STORAGE

DANOINJECT PUF 2K is both temperature and moisture sensitive. Store under the covered shed in dry condition with temperatures between 10°C to 40°C and protect from extremes of temperature, heat, direct sunlight, high humidity and children.

Storage above 40°C and high humidity>50% would result in reduced shelf life and performance.

SAFETY PRECAUTIONS

DANOINJECT PUF 2K is non-toxic and non-flammable in nature. However, normal safety toolslike, goggles, gloves should be used while handling the material. Avoid prolonged contact with the skin, eyes, mouth, and food items.

VERSION: R1, 202004

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.

TIKITAR DANOSA (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

