



# PU Foam 31 C

2K PU Foam Injection Grout

Pack Size  
1.5Kgs



## TDS Technical Data Sheet

### Product Description

PU Foam 31 C is based on hydroxyl terminated hydrophobic polyol and iso cyanate terminated hardener. It is used for sealing and filling of dry, damp or water bearing cracks. It serves as a horizontal water stop against capillary rising moisture in brickwork, stone work, etc. It has low viscosity, high penetration, quick setting and forms tough and flexible polyurethane rubber after complete chemical reaction.

### Product Properties:

Appearance and Colour	Comp A: Yellow liquid, Comp B: Dark brown liquid
Density (gm/cc)	Comp A: 1.04 - 1.06, Comp B: 1.22 - 1.24
Solids (%)	Comp A: 100, Comp B: 100
Viscosity @ 25°C (mPa.s)	Comp A: 60-70, Comp B: 150-250
Pot Life of Mix @ 20°C (min)	70-90
Hardness, Shore D	60-80A
Tensile Strength (N/mm <sup>2</sup> )	2-2.5
Relative Elongation (%)	60-80
Adhesive Strength (N/mm <sup>2</sup> )	>1.8
Chemical Resistance	Resistant to organic solvents, mild alkalis/acids
Application Temperature	5°C-40°
Mixing Ratio	2:1 by weight (or as specified on the container)

## Advantages:

- Very low viscosity benefits in high fluidity and penetration.
- After curing, it forms inert and stable polyurethane rubber.
- It is not compatible with water hence injection grouting is possible in the presence of water in the substrate.
- Cures in ambient temperature in air as well as in the presence of water.
- After curing it provides tough and elastic properties of PU.
- Bonds strongly to brick, stone and cementitious substrate in air and to wet surfaces.
- It is certified for drinking water contact.

## Areas of Applications:

- Sealing of concrete construction joints, hairline and wider cracks by injection grouting.
- Sealing of brick construction cracks.
- Injection grouting of drinking water reservoir and dams.
- Sewers and wastewater effluent tanks grouting.
- Grouting in tunnels.
- Suitable for injection into wet and dry concrete structures.
- Grouting of manholes and utility boxes.
- As backup injection to PU Foam injection under pressure.

## Application Methodology:

### Surface Preparation:

Prior to the injection procedure, check the nature of the building structure, type of cracks, hydrostatic conditions and water quality. Clean the cracks and crack edges so that the source of water leakage can be detected. Remove all spalled layers of plasters from the area of the injection level and patch all joints and defective brickwork with quick-drying cement mortar. Drill holes considering the actual size (thickness) of the wall/concrete member and the size and length of injection packers to be used. In the case of crack injections into brickwork and horizontal water stops, drill the holes into the bricks to ensure that the mechanical packers are fastened tightly. When tightening the packers, make sure that the injection hose rests comfortably on the zerk or button head fittings.

### Mixing:

Empty components A and B, which are provided according to the required mixing ratio of 2:1 (parts by volume) or measured out in separate containers by the user, completely into a mixing vessel and mix homogeneously.

### Application - Injection Procedure:

Apply PU Foam 31 C injection by means of a single or two-component pump. Make sure that only pure PU Foam 31 C injection without any residues from cleaning agents or other foreign matter is injected. The injection pressure depends on the nature of the building and the hydrostatic conditions. In the case of crack injections, the injection procedure must be continued until the crack is filled completely and the resin can be seen emerging from the adjacent packers.

### Finishing:

After the curing process of the injection resin (approx. 24 hours after the injection), remove the packers and close the drill holes with suitable mineral building materials (quick-binding cement, swelling mortar).

### Precautions:

Do not allow the material to enter drains or soil in an unmixed state. Ensure that all spalled layers of plasters from the area of the injection and all joints and defective brickwork are properly patched and levelled with suitable repair mortar

### Pack Size

1.5Kgs



### Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

### Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

### Legal Disclaimer

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