

### Product Description

Techno JetGrout is a low viscosity liquid which reacts with water in a controlled manner to form a swelling resilient adhesive solid in densities and strength appropriate to the designated task. When impregnated under pressure into leaking structures, it forms a permanent flexible/rigid water barrier by the process of polymerization.

The liquid retains its initial low viscosity upon contacting water allowing it to flow without dilution. Once the Techno JetGrout water reaction commences, the grout expands penetrating into its surroundings and quickly cures to a tough, adhesive solid to repel the influence of underground seepage flow and solidify the objective ground and remains unaffected by corrosive environments.

### Uses

#### Building Construction & Civil Engineering Application

- Prevention of water from leaking into underground basements, tanks, sumps, pits etc.
- Soil stabilization for foundations. Prevention of landslides
- Securing tie-back anchors for retaining walls or bays
- Serving as sealer or liner in concrete structures
- Serving as water barrier in basement gravel bedding waterproofing system
- Solidifying and strengthening of ground and rock and stopping water from oozing out
- Preventing leakage in tunnels and tunnel segment, deep underground structures and water retaining structures
- Stabilization of abutment and bridge piers
- Preventing leakage through dams
- Solidifying and creating a water barrier in rock and earth fill dams
- Back filling by impregnations for tunnel shield construction Preventing air from leakage during compressed air shield construction or caisson construction
- Facilitates supportability of pile and pier
- Increases bearing capacity of underpinning
- Prevention of crown collapse in tunnels

### Advantages

- Has very remarkable solidifying property even in areas where water flow is violent
- It stops water from oozing and solidifies the ground with high strength
- Imparts solidifying property in all types of water, such as seawater, mineral water or that containing slight acid and alkali
- Is extremely stable both chemically and physically and remains unaffected from the attack of any bacteria or fungi
- Is completely safe and non-pollutant to the water it contacts after completion of reaction and has no effect on potable water, fish or marine life
- Possesses excellent adhesiveness to solid particles and is therefore used very successfully in landslide prevention
- Does not wash away or is not diluted by the ground water after solidification

### Environmental Engineering & Other Applications

- Solidifying agent to atomic, industrial and chemical waste solutions or waste water
- Solidifying agent for sewage and sludges removed from organic and inorganic waste dumps
- Preservation of historical relics, harbour engineering, mining reclamation engineering etc.

## Impregnation Method

Techno JetGrout is generally pumped as a single component through low pressure hand-operated pumps or special high pressure pumps, as required according to site conditions. Hoses are filled with packers/injection nipples with valve which is sealed against back-pressure with quick-setting cement. The surface is sealed/patched properly to prevent from coming out.

Techno JetGrout reacts with water and expands to form a 'fluid wedge' & blocks the leakage. Even gushing leakages can be sealed without it being necessary to block the hydraulic pressure. Due to the low viscosity and expansion during reaction even the smallest cracks, fissures and pores can be impregnated.

Since the chemical reaction is very quick, the results are immediately visible. When water is not naturally present in sufficient quantity to assure the desired reaction, a sufficient quantity of water is also required to be injected.

## Properties

Appearance	Clear Transparent Liquid
Viscosity (cps @ 25° C)	200
Specific Gravity @ 25°C	1.06 ± 0.02
Corrosiveness	Non-corrosive
Toxicity	Non-toxic
Flammability	Non-flammable
Gelation	Highly strong elastic Gel

## Packaging

Techno JetGrout is available in 20 and 200 Kgs carbuoys

## Shelf Life

12 months if kept in a dry store in its original packing. High temperature and humidity storage may reduce this period.

## Health & Safety

Techno JetGrout is of low hazard. Contact with the skin and eyes, or inhalation of dust should be avoided. Suitable protective clothing, gloves, eye/face protection and dust mask should be worn. Any contact with skin, should be washed with clean water. Incase of contact with eyes, should be rinsed immediately with plenty of water and sought medical attention.

**Important:** Technokem products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, Technokem does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.

### For Complaints/Suggestions:

Please write to our Customer Care Executive at

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