

# TOP INJEKT 30

## 2°C Polyurethane Hydrophobic Injection Foam

### PRODUCT DESCRIPTION

**TOP INJEKT 30** is a two parts solvent-free, low viscosity hydrophobic polyurethane based injection system when mixed in the proportions supplied it reacts rapidly with water to form a foam barrier.

### USES

- Injection of water bearing cracks and joints in concrete and stone.
- Provides an effective system for crack sealing in wet conditions.
- Injection of Tunnels, Dams, Subway(Metro), Sewers, Limestone, Manholes, Utility boxes
- Soil Stabilization
- Temporary Dyke Structures
- TBM Tunnels
- Pipe intrusions, Waste water tanks
- Concrete/Masonry Structures, Earth Bund construction, Brick Construction
- It can be sprayed by surface of the tunnel
- Stoppage of water inflows from cracks, joints, etc.
- Compacting of loose stones
- Defective Concrete (cracked or honeycombed)

### ADVANTAGES

- Good penetration into cracks & cavities > 0.2 mm.
- Seals against water - Reacts and produces foam resistant to water.
- Low viscosity allows penetration into fine cracks.
- Adjustable reaction time.
- Rapid reaction to produce water stop in presence of flowing water.
- Deep penetration into very small cracks
- Excellent bond to surfaces.
- Good Adhesive Strength
- Inert after curing constant volume, no shrinkage

### APPLICATION PROCEDURE

Before injection, the structure's cracks and voids, respectively the leakage, have to be inspected according to technical standards and regulations, and an injection concept is to be prepared. High-pressure injection packers with adequately sized Nozzles must be placed.

Mixing TOP Injekt 30 consists of two component and catalyst to adjust the reaction time.

Catalyst	Mins
0, 33 %	50
1, 67 %	11
3, 33 %	6
5, 00 %	4
10, 00 %	3'30"

Reaction time depends on concentration of the catalyst at 23°C and 75% rel. humidity.

The pot life of the mixed components is about 6-8 hours provided that there is no contact with water and atmospheric humidity.

Injection with TOP Injekt 30 should be effected in intervals depending on site conditions to allow the foam enough time to react. Within a few minutes further injection requirements can be determined from the visible water penetration developed from the injection pressure.

TOP INJEKT 30 using a two-components, component A (Base) and component B(Hardener). The components are mixed in the mixing head of a two-component Injection-pump with suitable static mixer. (e. g.30 cm spiral static mixer or 20 inline static mixer) and because of its long reaction time it can be used in Single Component Injection Pump.

TOP INJEKT 30 comes into contact, or is mixed with water, parts of it turn into a hard flexible, closed cell foam.

## TECHNICAL PROPERTIES

Colour	Light yellow
Appearance	Liquid
Density	1.2 g/ml
Compressive Strength	30 MPa
Flexural Strength	> 9 MPa
Lowest Application Temperature	+ 3 °C
Pot life	6-8 hours at 20 °C and 50 % rel. humidity

### RISE TIME

TOP Injekt 30	2%	5%	10%
10°C	5m	124sec	78sec
15°C	5m5sec	120sec	75sec
25°C	4m:45sec	115sec	63sec
35°C	3m:4sec	108sec	60sec

## PACKING

TOP Injekt 30 Part A -20 & 210 kg  
 TOP Injekt 30 Part A -20 & 250 kg  
 TOP Injekt 30 CAT – 1 ,2 & 5 kg  
 TOP Injekt 30 ACC – 1 ,2 & 5 kg

## STORAGE

Shelf life Twelve months, if kept carefully in unopened condition should be stored in a dry and cool place away from direct sunlight. Before use the container should be shaking well.

### FOAM EXPANSION RATE (APPROX)

TOP Injekt 30	2%	5%	10%
10°C	11	15	28
15°C	14	20	29
25°C	15	25	30
35°C	20	25	30

## HEALTH & SAFETY ADVICE:

Wear protective clothing's, safety shoes and Gloves during the application of the material and When cleaning the equipments. The use of a suitable skin care cream is recommended. In case of contact with skin wash with soap and water. In case of contact with eyes rinse immediately with clean water and seek medical advice immediately.

### Warning:

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