

# Sate PUR INJ

## One component polyurethane resin injection

### Properties

Sate PUR INJ is a one component polyurethane resin with moisture dependent cure. Contact with ambient humidity will result in curing. It is particularly suitable for waterproofing purposes in moist and wet areas. When large voids are to be filled, an increase in volume by 4 to 8 %, depending on temperature and humidity, must be taken into account. Sate PUR INJ is resistant to salt water, salts, gasoline, oils grease, many alkaline solutions, acids and other chemicals.

### Area of applications

Sate PUR INJ is suitable for the sealing of cavities and cracks in concrete and masonry, water reservoirs, swimming pools, sewage treatment plants, quay walls, foundations, shafts. It is good for post sealing of joints with pipe connecting sleeves.

### Product Data

Base	one component polyurethane resin
Solvent	yes
Colour	yellow
Density	approx. 1.02 kg/dm <sup>3</sup>
Consistency	liquid
Application temperature	+10°C to +35°C (air and substrate)
Application	injection and pouring
Temperature resistance	dry: appr. +80°C wet: +70°C
C Curing time	approx. 2 days
Flash point	200°C
Cleaner	thinner AX

### Working instructions

#### Preparation of substrates

The substrate should be moist and must be free from dust, oil and grease. Blowing out the cracks with dry compressed air will provide good conditions.

#### Injection method

For this method, Sate PUR INJ is injected into the gaps and cracks with an appropriate injecting pump at a pressure of 10 to 200 bar (depending on the compressive strength of the substrate). Clean the concrete surface to appr. 3 to 4 cm on both sides of the crack with a steel brush or with grinding discs. Drill holes at appropriate intervals and install the injection nipples carefully. Close the cracks between the injection nipples with Satex Szem. Allow one of the presaid products to cure completely before injection in order to avoid loss of the injection material through extrusion. Then charge the injection cylinder and convey the injection material through pump and high pressure hose to the injection nipples and thence the crack area. When a steady pressure is obtained, proceed to the next injection nipple and repeat the injection procedure.

#### Pouring method

For horizontal surfaces, drill pouring holes at 50 to 100 cm intervals and 20 to 50 cm deep. The drilled holes should be about 2 to 5 cm diameter. Then pour in the well mixed Sate PUR INJ. When the level drops, immediately add more material. For vertical surfaces, seal the cracks in sections with Satex Szem the injection resin slowly above that point. In order to avoid inclusions of air, the resin must flow in a way that the air is allowed to escape upward. The cracks, joints and cavities to be sealed must contain moisture; if not, moisten beforehand is necessary.

### Use of accelerator

It is required in case of injection in a water containing area. Even with an admixture of only 0.5 %, the accelerator is capable of doubling the reaction velocity of Sate Pur INJ which depends on the amount of water in the cracks and on temperature. The foam volume will be increased. The accelerator is mixed with Sate PUR. The admixture range is approx. 0.5 to 5 %. The material must then be used immediately.

### Tools and Cleaning

Clean tools with thinner AX is necessary. For rinsing, use an oil containing material.

### Consumption

200 g of Sate PUR INJ will fill one liter for joint or cavity space.

### Delivery and storage

Sate PUR INJ is delivered in containers of 1 l, 5 l and 10 l (net contents). Partial crystallization of the injection resin is possible at temperatures below 0°C. Upon slight heating, the crystals will dissolve again and further use will be possible without problems. Protect the material against humidity and keep the container hermetically sealed. Can be stored dry and in original sealed packing for at least 6 months. Store Sate Pur INJ away from food and drink.

### Notes

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