

SatePox INJ

Low viscosity, solvent free, two component epoxy resin for injection

Properties

Sate Pox INJ is a epoxy resin for injecting cracks into concrete, masonry etc.

It has extremely low viscosity, high compressive and flexural tensile strengths after curing. It is free of non reactive softeners 'High flow properties' and provide excellent adhesion to concrete. It is resistant to sea water, salts, fuel, oils, fats, many alkaline solutions, acids and other chemicals.

Area of applications

Cracks in concrete and masonry are sealed with Sate Pox INJ which gives an excellent bonding to the structure. Cracks may result form shrinkage during the setting of concrete, compelled temperature expansion, overdosed sollicitations etc. The danger of cracks is given for a structure whenever besides the formation of cracks a corrosion of the steel reinforcement might happen. Cracks in concrete can be sealed and bonded with SatePox INJ also for bridge and road construction and every kind of weight bearing component of concrete, steel or prestressed concrete. The bonding with SatePox INJ requires clean crack sides. The low viscosity provides an excellent penetration and it is possible to work with a low injection pressure. Before injection works begin, it is necessary to check the reasons of cracks. Otherwise new cracks might happen again.

Product Data

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| Base | epoxy resin |
| Solvent | none |
| Colour | transparent (yellowish) |
| Density | appr. 1.1 g/cm ³ |
| Mixing ratio | resin base (below) : hardener (above) 75: 25 kg |
| Application | injection or pouring |
| Viscosity after mixing at + 20°C | 100-250 mPas |
| Compressive strength | 60 N/mm ² |

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| Tensile flexural strength | 30 N/mm ² |
| Potlife at + 23°C 200 g (DIN 16945) | appr. 40 min |
| Final hardness | appr. 75 min. |
| Temperature for application | appr. 3 - 7 days above + 10 °C (air and substrate) |
| Cleaner | thinner AX |

Working instructions

Preparation of substrates

The substrate can be dry or slightly damp and must be free of dust, oil and grease. Blowing out cracks with compressed air is ideal.

Mixing

The quantity of hardener in the upper part of the container is matched to the resin base in the lower part. If only a partial quantity is required, the mixing ratio in parts by weight shown on the container label is to be observed. The hardener is emptied into the resin base and carefully mixed at low speed. After mixing no streaky areas should be visible in the compound. For this reason pay special attention to the bottom and sides of the container when mixing.

Potlife

Potlife depends on temperature and container size. Larger containers and higher temperatures shorten the potlife. Curing takes place at temperatures (air and substrate) above + 10°C.

Injection

Sate Pox INJ is injected through hole packers (screw or fitting ones) or bonding packers. The distance of injection drill holes fits to the depth and width of the cracks. Usually the distance is 1 - 1.5 times of the crack depth.

Delivery and storage

Sate Pox INJ is delivered in 1 and 5 kg sets.

Can be stored dry and cool in original sealed packing for at least 12 months. All epoxy resin based products tend to crystallize with the action of frost. Material exposed to frost can be used again by warming. Allow the material to cool again before working.

Notes

This data sheet is based on comprehensive experiences, intends to inform to the best knowledge, is not legally binding and does not constitute a contractual legal relationship or a side obligation from the purchase agreement. We guarantee for the quality of our product under our terms and conditions of sale and purchase. In to reduce the risk of error, limiting information is also stated. We reserve the right to make changes representing technical progress. This data sheet supersedes all earlier technical data on this product.