

PRODUCT DATA SHEET

SikaInject[®]-473

Low Viscosity Epoxy Injection Resin

DESCRIPTION

SikaInject[®]-473 is a two component solvent free epoxy injection resin with an extended pot-life

USES

SikaInject[®]-473 may only be used by experienced professionals.

Injection of fine cracks, joints, honeycombs, etc.
Structural repair and waterproofing of concrete
Applications include grouting of minute void for repair purposes. • Cold joints between different concrete pours • Stabilized cracks in structural elements • Un-filled voids behind tiles, stone facades and joints • Fine gaps around anchor bolts loosened due to improper grouting • Gap behind steel plate / epoxy plate bonding

CHARACTERISTICS / ADVANTAGES

- High elastic modulus - effective transfer of stresses at bond interface
- High heat deflection temperature - resists creep at high service conditions
- Low viscosity - effective penetration into very fine gaps < 0.1 mm
- High bond strength - renders grouted area monolithic
- Good bond to damp surfaces - advantage in humid environments
- Long potlife - sufficient time to penetrate deeply
- Pre proportioned - avoidance of site errors
- Fast curing - fast return to service of repaired area

PRODUCT INFORMATION

Packaging	Part A: 5.6 kg Part B: 3.0 kg
Colour	Part A: clear amber, thin liquid Part B: clear, thin liquid
Shelf Life	12 months from date of production
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperature between +5 °C and +35 °C.
Density	Mixed: ~1.07 kg/l
Viscosity	~350 cps (25°C)

TECHNICAL INFORMATION

Compressive Strength	> 70 MPa (ASTM D 695)
Modulus of Elasticity in Compression	> 2300 MPa (ASTM D 695)
Tensile Strength in Flexure	> 25 MPa (ASTM D 695)

Tensile Strength > 12 MPa

Heat Deflection Temperature 60 °C

APPLICATION INFORMATION

Mixing Ratio Part A : Part B = 1.35 : 1 by volume

Yield Usage will depend on the injection pressure and the size of the cracks and is impossible to estimate

Substrate Temperature 5 °C (min. application temperature)

Pot Life > 2.5 hours (1L pack at 25 °C)

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Surface packers (injection ports): Remove all grease, oil, dust, residual curing compound, mould release agent or other contaminant that could impair adhesion of the injection ports.

Drill hole packers: blow dust out after drilling.

MIXING

Proportion part kits accurately mixing only what can be used in less than 30 minutes. Thoroughly stir Part A, add Part B and blend thoroughly using a slow speed mixer fitted with a suitable paddle.

APPLICATION

Surface packers/injection ports:

The injection ports should be applied over 6-10mm diameter holes drilled at least 50-75mm into the concrete element. For deeper penetration deeper holes should be considered.

Use suitable epoxy adhesive (e.g. Sikadur®-31+, Sikadur®-Combiflex® Adhesive) to adhere the injection ports over the holes ensuring that the adhesive does not block the drilled holes. Allow the adhesive to cure before injecting. The ports should follow the crack at intervals of 500mm or a maximum of 1m centres. Inject from the lowest point or furthest point towards the centre checking for resin coming out of the next hole along.

Drill hole packers:

Drill in 45° angle, intersecting the crack deep (ideally in the center) in the structure. Blow dust out, set packers and inject from the lowest point upwards. Leave the next packers open for control and continue injection from there, when resin is visible.

For detailed instructions for on crack injection ask your SikalInject® Representative for method statements.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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