



Calsil®972

Low-stress injection glue based on Trass lime

Puzzolanic injection and filling mortar for crack and cavity filling. Especially designed for historic buildings and restoration of natural masonry with low strength.

Application Processing

Calsil®972 is usually applied by injection. The substrate should be thoroughly pre-wetted before application. This prevents the masonry from drawing too much mixing liquid from the injection material, with the consequence of insufficient adhesion to the substrate and low strength.

The fine-particled injection glue is mixed with clean water preferably in compulsory mixers or - better - with colloidal mixers, high-speed mixing devices with stirring discs, etc. devices, mixed.

The injection itself is carried out at low pressure to prevent any damage to the building structure. Air-operated diaphragm pumps or screw pumps are therefore particularly suitable for conveying the material for injection. The very good flow properties of Calsil®972 facilitate the work. There are no special requirements for the materials of the injection machines. Water is sufficient for cleaning them.

Properties

Composition	Calcium hydroxide, volcanic trass powder, additives and auxiliaries
Aspect	Fine particles, grey solid
Fineness	Approx. 500 µm
Specific surface	6 - 6500 m ² /g
Bulk density	Approx. 0,8 kg/dm ³
Yield	Approx. 1-1,1 lt Injection mucilage/kg solid
Processing temperature	+5 till + 30°C

Strength development according to EN 459 for air storage:

Minimum strength	5 N/mm ²
Maximum strength	15 N/mm ²

Do not mix in any other substances into Calsil®972 than clean mixing water. The amount of water must be adjusted to the desired consistency of the injection mixture, the structural conditions and the requirements for compressive strength. Do not use below 0°C. Low temperatures delay the setting and the development of the strength.

**Shelf life
Storage
Safety**

Shelf life (BBD): 6 month after delivery date, stored in originally closed bags, dry, on wood palettes in a closed room with max. 65% air humidity and temperatures below 30°C. Shelf life starts the day leaving the factory and applies only if stored and transported properly.

Store Calsil®972 in such a way that it is not accessible to unauthorised third parties and children.

The material contains chalk and is high alkaline in wet or humid condition. Avoid eye and skin contact. We recommend gloves and goggles. Remove splashes on skin immediately. In case of eye contact rinse thoroughly and consult an eye specialist.



These technical information describe the present-day state of knowledge these product. They should only inform about the possibilities of application and could not release the applicator of his commitment to check the possibility to use the product for the required application. Information for processing can be found in processing instructions of our product. Information about safe handling can be found in our current safety data sheet.

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