



SiliBond®Si 714 reactive

Consolidates and seals fine geological structures

Solvent-free, hydrophilic and reactive injection agent consisting of a silicate binder with water-like low viscosity and very good adhesion, even on moist substrates.

Typical applications for SiliBond®Si 714 reactive are the stabilisation and sealing of structures made of fine and silty sands, the installation of sealing bases under deep excavation pits, backfill injections and pre-injections in tunnel construction.

SiliBond®Si 714 reactive is mixed with a hardener component before application. The processing and setting times can be influenced by the amount of hardener and vary between several hours and a few minutes. Therefore, the processing can be done in the classical one-component way or in 2-component technique with the typical dosing pumps for this method.

Important: SiliBond®Si 714 reactive contains no aggressive ingredients, it can be applied with all conventional injection devices. As a working material it is physiologically harmless, ground water neutral and does not have to be labelled!

Properties

SiliBond®Si 714 reactive - Component A

Aspect	Colourless, opalescent liquid without odour
Density	1,3 kg/ltr (20°C)
pH	9,5 - 10
Viscosity	<10 mPa.s (20°C)

SiliBond®Si 714 reactive - Component B (hardener)

Aspect	Light blue, clear liquid, without odour
Density	1,05 - 1,08 kg/ltr (20°C)
ph	7
Viscosity	1 mPs.s

Processing

For one-component processing (with longer gel times), the SiliBond®Si 714 reactive A is thoroughly mixed with the amount of hardener (B) required for the desired gel time, which can be taken from the table in the "Processing Instructions SiliBond®Si 714 reactive".

For classic 2-component injections in mixing ratio 1:1, both components are used as delivered. The gel time is then approx. 4 minutes, the typical reaction time. For longer gel times, the B-component can also be diluted with water (1:1 for the same mixing ratio).

Processing itself is unproblematic, and no special requirements are placed on the equipment used. Clean water is sufficient for cleaning the tools and equipment.

Storage Security Both components can be kept for at least 20 months after delivery date in the original sealed containers. They both contain water and must be protected from frost. Component A is rendered unusable by freezing.

SiliBond®Si 714 reactive poses no particular danger. Nevertheless, the usual industrial hygiene regulations should be observed during processing and protective clothing should be worn. Further information on the safe handling of the product components can be found in the current safety data sheet and, for processing, in the processing instructions for the product.

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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