



## **Silex®Suspension 931**

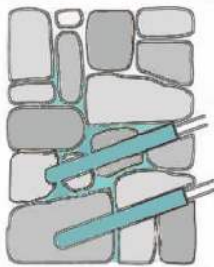
Drilling hole suspension and injection mortar

**Silex®Suspension 931 is a new processing optimised injection mortar made for cavity filling in jointed masonry and injection of cracks and cleaves.**

The products application- technology is optimised. Suspensions made of Silex®Suspension 931 are easy to pump, non shrinking, without sedimentation and with quick setting.

### **Many advantages**

- **Resistant against salts and sulphates**
- **Good underground adhesion and strength**
- **No shrinking after the setting**
- **Excellent flow properties**
- **Low viscosity without sedimentation**



Silex®Suspension 931 fills cavities in structures that are to be sealed by injection. Pre-injection with Silex®Suspension 931 closes these voids. It prevents uncontrolled run-off of the injection agent, supports its even distribution in the injection layer and thus creates an important prerequisite for successful waterproofing.

Silex®Suspension 931 ist compatible with horizontal barriers based on silicone and silane (HydroBloc®SI Brands) as well as HydroBloc®-Gels and resins.

Walls with cavities, dry masonry and similar building materials will be stabilised and strengthened with Silex®Suspension 931. Especially in combination with Cem-bond® 956 our cement reactive additive used as mixing liquid toughens the structure of fragile structures up.

### **Processing**

The underground should be clean, frost free and stable. Pollution inside the drilling holes or cavities should be removed e.g. blowing out with air pressure. Dry undergrounds should be moistened before the filling of Silex®Suspension 931.

Silex®Suspension 931 will be mixed into clean fresh water with a permanent slow rotating mixer. To mix one bag of Silex®Suspension 931 with 25 kg, approx. 12.5 - 13.7 litres of water are required. 20 kg Silex®Suspension 931 result in approx. 20 - 21 litres of cement paste. It is stirred until a homogeneous, free-flowing mass is obtained. The mixed injection mortar must be applied within 60 minutes. Material that has already set must not be stirred / diluted again!



Big cavities could be filled manual - with a funnel or with a hand pump. We recommend the usage of pumps with low pressure method for the filling of smaller cavities and wide cracks. Particularly suitable are extender spiral pumps and pneumatic-membrane-pumps.

The waiting time between the application of Silex®Suspension 931 and the subsequent injection of horizontal barriers is app. 24 hours. After that period of time the drilling hole could be drilled open again.

## Product Data

Composition	Special cements, minerals and additives
Bulk density	Approx. 0,9 kg/dm <sup>3</sup>
Green mortar density	Approx. 1,8 kg/dm <sup>3</sup>
Processing time	Approx. 60 minutes
Processing temperature	+5 °C bis +30 °C
Bending tensile strength	1 day ca. 2,7 N/ mm <sup>2</sup> 7 days ca. 3,5 N/mm <sup>2</sup>
Compressive strength	1 day ca. 10 N/mm <sup>2</sup> 7 Tage ca. 30 N/mm <sup>2</sup>
Room change	None (DIN 4227, Teil 5)
Packaging	PE-bag a 25 kg
Consumption	Approx. 1,9 kg per liter cavity volume
Cleaning	With water

**Important:** Silex®Suspension 931 is an injectable mortar no microcement. The product is not suitable for the stabilisation of sandy soils or the sealing of typical shrinking joints with width  $\leq 0,5$  mm.

## Storage safety at work

Silex®Suspension 931 is a special mortar with cement. The product must be stored cold and dry. Minimum durability in original closed bags minimum 12 month after delivery date. Because of the cement inside please use the typical protection methods for cement containing products.

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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## ARCAN Waterproof

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