



## HydroBloc®SI 706 SMK

Silicone microemulsion for horizontal barriers

HydroBloc®SI 706 SMK is a water-emulsified, solvent-free concentrate based on silane/siloxane. The product is used diluted with water as an injection agent for the production of hydrophobic barrier layers. HydroBloc®SI 706 SMK effectively and permanently prevents capillary water transport in mineral building materials and thus prevents moisture penetration due to rising damp.

The HydroBloc®SI 706 SMK, supplied as a concentrate, is diluted 1:10 with clean tap water before application. The hardness of the water must not exceed 20 °dH. The ready-to-use emulsion produced by diluting has a limited shelf life and should be used within 48 hours.

### Processing

The emulsion is injected into the masonry via boreholes, either unpressurised via receiver vessels or according to the usual pressure injection methods via filler necks ("packers"). Injection under pressure is always recommended when the building materials are more heavily moisturised (water content in the masonry > 50%). Fissured masonry with a high voids content should be grouted beforehand with a cement suspension as usual.

### By a two-stage injection:

In the case of very high moisture penetration, the HydroBloc®SI 706 SMK silicone emulsion can be activated by a two-stage injection with siliconates (Kieselso®701), which leads to spontaneous precipitation of the hydrophobic active ingredients (polysilicic acids) and to faster and better formation of the horizontal barrier layer. This post-injection should take place within 24 to max. 48 hours from the main injection.

### Optimum results even with high moisture penetration

**Important:** A prerequisite for the function of horizontal barriers is that the masonry at the injection level is completely saturated with the injection agent. This impregnation depends of course on the structure, composition and water content of the existing wall building materials and always requires a sufficiently measured injection time. Times of less than 7-10 minutes for injection using pressure methods and 8 hours for non-pressure methods are minimum values and should never fall below.



**Pressure injection via packers is a safe method for installing barrier layers with HydroBloc®SI 706 SMK.**

**The distance and arrangement of the holes depends on the structural situation.**

**Product data\***

Delivered Product	: Opaque liquid
Odour	: Faint smell, typical
Diluent	: Tap water with < 20 °dH + demineralised water
Liquid	: Yellowish
Silane/siloxane content	: Approx. 60%
pH-Value	: 8 - 9
Density	: Approx. 098 gr/ml at 20 °C
Flash point	: Not applicable

\* This information is indicative and is not intended to be specific

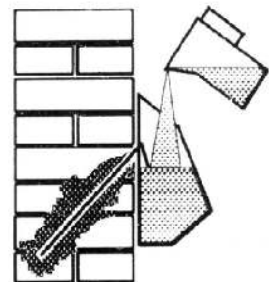
**Safety Storage**

The product is not a hazardous substance. It is intended for processing by specialists and must not be allowed to fall into the hands of unauthorized third parties or children. Detailed instructions for handling the product are contained in the current safety data sheet.

The HydroBloc®SI 706 SMK in undiluted form can be stored for at least 12 months if the original containers are kept tightly closed between +5 °C and +30 °C. The containers must be protected from frost and sunlight.

Longer storage does not mean that the product is unusable. In this case, however, a check of the properties required for the application is necessary for quality assurance reasons.

**Pressureless injection with our storage tank 708 system Tröppl**



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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