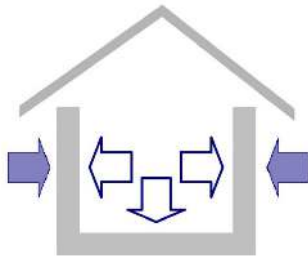


Kieselso[®]l701

Kieselso[®]l701 - a versatile product that has proven its worth over many years for strengthening and sealing the construction. Kieselso[®] is made of reactive and water-repellent compounds of silicic acid and protects your buildings permanently against water.



Kieselso[®] - is water repellent, constricts the capillaries, interrupts the water transport. A secure groin guard for sealing damp walls.

Kieselso[®] - injected into the structure, protects perfectly against capillary rising moisture.

Kieselso[®] - applied flatly, is a diffusion open depth barrier against reverse side humidity.

Kieselso[®] - as a primer and diluted 1: 1 with water, improves the adhesion of plaster and paints.

Kieselso[®] - reacts with the building materials. The released silica* strengthens and hardens it. Strength and chemical resistance of building materials is greatly improved by this silicification.

Kieselso[®] - reacts fast and accelerates the work through its rapid reaction and drying, e.g. also as additional basic silicification under sealing slurries and plasters.

Kieselso[®] - is easy to handle and requires no special knowledge

Kieselso[®] - is environmentally friendly. It is a quasi-natural building material made of pure quartz sand. Kieselso[®] contains no solvents and no hazardous substances.

*Kieselso[®] reacts to Silicium dioxide/SiO₂ (Quarz)

Product data

Appearance	Clear liquid
Color	Colourless
Odor	Very weak
Viscosity	Low viscosity, ≤ 80 mPa.s
Dilution with	Water
Density	Approx. 1,15 g/ml
pH- value	Approx. 11
Labelling GHS	GHS07
ADR	Not applicable
ARCAN-Product-Nr.	Si-701

Reacted product

Film formation	No
Strengthening effect	5 N/mm ² (depending on the substrate)
Water-repellent „w“	$\leq 0,5$ kg/m ² *h 0,5
Vapor permeability	≥ 90 %

Kieselso[®] - Processing and examples of the application

Impregnation
Priming
Depth protection
Sealing of surfaces

In terms of application technology, these processes do not differ much from each other. The substrate (the building material) is saturated with Kieselso[®]. The surfaces should be clean and free from loose particles. The Kieselso[®] is applied to the substrate in the most suitable and easiest manner with a brush or a tassel soaking it thoroughly. If the surface absorbs strongly and the material absorbs immediately, repeat the process. It is advisable to work wet-on-wet without waiting for the first application to dry.

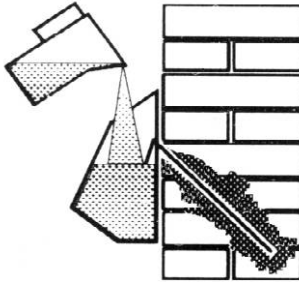
Kieselso[®] can also be sprayed, especially for large surfaces or uneven surfaces. We recommend low pressure methods. Simple and very suitable are the use of sprayers for mould oils.

The surface pre-treatment of mineral building materials with Kieselso is an inexpensive, durable and very efficient, flanking measure as an additional barrier before sealing with mineral sealing slurries, but also under plaster and as protection against driving rain, for plaster surfaces and splash water (plinth!) and concrete.

**Injection
horizontal barrier
with rising damp**

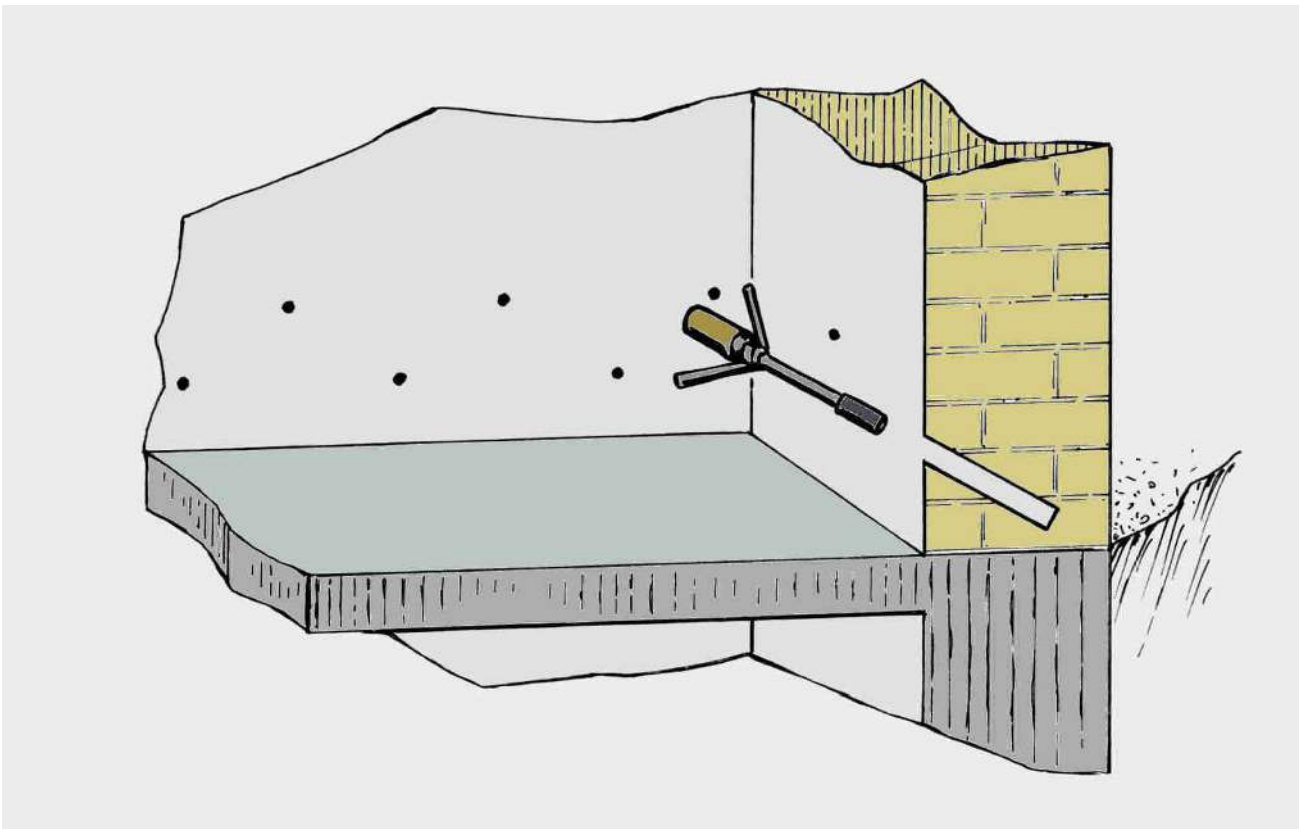
The installation of horizontal barriers in walls is one of the classic applications for Kieselso[®]. The product has a double effect in this application: The silica gel deposited in the building material during the silicification reaction fills and closes the capillary pores. At the same time, methyl silicic acid is released in a hydrophobic manner and fills the secondary pores that are formed during the drying process; water can no longer wet them. The wall dries out.

Kieselso[®] is a proven and tested product for this particular application and complies with WTA * sheet 4-4-04 / D (Masonry injection) against capillary moisture. The requirements of this guideline are fulfilled by Kieselso[®] 100%!



For injection, Kieselso[®] is injected into the structure in accordance with the WTA guidelines via boreholes arranged in a grid; they are drilled diagonally downwards at an angle of 25 - 30°. The drill hole depth should be approx. 75 - 80% of the wall thickness, the lateral distance 10 - 12.5 cm, in two rows, half of which should be offset to the middle.

The injection itself is carried out either without pressure from storage tanks, supported by the natural capillary suction of the building material, or with the aid of injection pumps at low pressure.



Kieselso[®]: Injection with storage containers or via injection packers with a pump

Detailed instructions for the proper application and processing of Kieselso[®] can be found in our processing instructions or ask our application technology department, which will also be happy to provide competent assistance with special questions.

Complementary products for the renovation in our product range. Easy to handle and functionally reliable. For each application the right product.



Cembond[®] - slurries

Made of special, sulphate-resistant cements and aggregates.

Finished with Cembond[®], the unique ARCAN polymer additive for a perfect bonding to the substrate.

Hard and flexible qualities, for interior and exterior sealing of foundations, for basins and cisterns, channels and shafts, under tiles and slabs.

Cembond[®]EPW 863

A combination of epoxy resin and cement. Pressure water-tight up to more than 5 bar **at negative water pressure** (when exposed to water from the rear), but open to diffusion. With enormous adhesion to concrete and high mechanical strength. The ideal seal for floors in basements, underground garages and wherever reliable waterproofing against high water pressure is required.

HydroBloc[®] - Injection resins

Injection resins - for sealing cracks, joints, crevices and imperfections. Acrylate resins, epoxy resins, injection rubber, polyurethanes, silicates and hybrids. ARCAN supplies the whole range!

HydroBloc[®]WPS 750

Waterproof, decorative protective and insulating coating. A decorative and absolutely waterproof barrier coat. With WPS 750, wet and even wet mineral surfaces are permanently coated and sealed with minimal effort. WPS-750 protects against mould and prevents efflorescence.

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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passion to invent 