



## KÖSTER Hydrosilicate Adhesive SK

Technical Data Sheet M 170 020

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### Adhesive and Spackle for KÖSTER Hydrosilicate Boards

#### Features

KÖSTER Hydrosilicate Adhesive SK is a component mortar for the gluing of KÖSTER Hydrosilicate Boards. It is also used for gluing the butted boards and used as a spackle / plaster for the installed boards.

#### Technical Data

Base material	Cement
Color	White
Bulk density	Approx. 1.4 g / cm <sup>3</sup>
Solid density	Approx. 1.7 g / cm <sup>3</sup>
Pot life ( + 20 ° C)	Approx. 45 min.
Compressive strength	Approx. 12 N / mm <sup>2</sup>
Bending tensile strength	Approx. 3.5 N / mm <sup>2</sup>

#### Fields of Application

For use with KÖSTER Hydrosilicate boards. These boards are applied to the inside of exterior and interior walls. There they absorb excess moisture in the air, store it, and steadily and uniformly release it back into the room. By increasing the surface temperature of the room the possibility of condensate formation is reduced. Due to its high porosity, the boards also have a very large surface area, favoring the fast evaporation of moisture. These factors all combine to create a comfortable room climate.

#### Substrate

A stable, clean, and even mineral substrate is required for the application of KÖSTER Hydrosilicate Boards. All bond inhibiting materials such as wallpaper, gypsum, paints, and insulation have to be removed before application. Absorptive substrates are primed with KÖSTER Polysil TG 500, with a consumption of at least 130 g / m<sup>2</sup>. Highly absorptive substrates may require up to 250 g / m<sup>2</sup>. Roughness and irregularities in the substrate up to 5 mm are leveled with KÖSTER Hydrosilicate Adhesive SK. Irregularities greater than 5 mm are leveled with mortar, for example KÖSTER Repair Mortar Plus mixed with 20% KÖSTER SB Bonding Emulsion in the mix water. Apply the system only after the substrate leveling has completely cured. All moisture rising through- or entering through the back of the wall to be rehabilitated must be stopped.

#### Application

For gluing, the KÖSTER Hydrosilicate Adhesive SK is mixed with a slowly rotating electrical mixer (under 400 rpm) into a homogenous, lump free consistency. When mixing the adhesive, first put ¾ of the water into a mixing vessel of sufficient size for mixing both components. Slowly add the powder component while continually mixing. Add the remaining water as required to reach the desired consistency. Each bag of KÖSTER Hydrosilicate Adhesive SK requires approximately 5.2 liters of water. Mixing time is three minutes.

Apply the adhesive to the substrate with a notched trowel. The notches should be at least 8 mm x 8 mm. The trowel ridges must fully cover the board area, and the butted board joints completely glued.

Glue the KÖSTER Hydrosilicate Board to the wall and adjust it as needed. The boards are staggered along their joints at least 10 cm.

All board edges are to be fully bonded.

Do not push the boards against the wall too firmly. In case a board

breaks, the crack can easily be repaired by completely troweling the crack over and smoothing it with KÖSTER Hydrosilicate Adhesive SK. Larger defects and breakouts should be repaired with board material cut to size. For jambs and soffits around windows and doors, use the thinner, 25 mm KÖSTER Hydrosilicate Boards. A mason's float is used to evenly distribute the contact pressure when pressing these boards into place.

After the KÖSTER Hydrosilicate boards have been applied and the KÖSTER Hydrosilicate Adhesive SK has dried, the surface can be sanded smooth with a float or sandpaper with a P80 grit size. Vacuum the surface to remove dust.

Exterior corners should be protected by installing a corner profile. These can be affixed with KÖSTER Hydrosilicate Adhesive SK.

Subsequently the whole area is plastered with a layer of KÖSTER Hydrosilicate mortar, in a maximum thickness of 2 mm. The stiffening adhesive can be floated smooth. If a very smooth surface is desired, the surface can be re-plastered and sanded.

By normal room conditions and good air circulation the surface can be painted over after 24 hours. All successive paints must be open to vapor diffusion, such as KÖSTER Silicone Paint White.

Further information on installation can be found in the Technical Guideline for KÖSTER Hydrosilicate Boards.

#### Consumption

Approx. 3 kg / m<sup>2</sup> (depending on the substrate); Approx. 1.7 kg / m<sup>2</sup> as spackle per mm layer thickness

#### Cleaning

Clean tools immediately after use with water.

#### Packaging

M 170 020 20 kg bag

#### Storage

Store the material in a cool, frost free and dry environment at temperatures between +5 °C and +25 °C. In originally sealed packages, the material can be stored for a minimum of 12 months.

#### Safety

KÖSTER Hydrosilicate Adhesive SK contains cement and is therefore alkaline. Wear gloves and safety goggles.

When sanding KÖSTER Hydrosilicate Boards wear respiratory protection. Observe all governmental, state, and local safety regulations when installing the boards.

#### Other

##### Special Instructions

Use only KÖSTER Hydrosilicate Adhesive SK to glue KÖSTER Hydrosilicate Boards. Use only paints, wallpaper, and plasters that are open to vapor diffusion on top of KÖSTER Hydrosilicate Boards. Never use latex paints or synthetic wallpaper.

#### Related products

KÖSTER Polysil TG 500 Prod. code M 111

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction site and for the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which exceed the specifications contained in this technical guideline require written confirmation. The valid standards for testing and installation, technical guidelines, and acknowledged rules of technology have to be adhered to at all times. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective and successful application. This guideline has been technically revised; all previous versions are invalid.

KÖSTER Hydrosilicate Board  
KÖSTER Silicone Paint White  
KÖSTER Glass Fiber Mesh  
KÖSTER Repair Mortar  
KÖSTER SB Bonding Emulsion

Prod. code M 670  
Prod. code P 260 010  
Prod. code W 411  
Prod. code W 530 025  
Prod. code W 710

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