

KÖSTER Silicate Adhesive

Technical guideline / Article number **5.17**
Issued: November 19, 2009

2 comp., highly chemical-resistant adhesive on silicate base

Features

KÖSTER Silicate Adhesive is a special adhesive on silicate base with high acid resistance for bonding and jointing of acid resistant ceramic coverings.

Technical data

Base	powder component	Cement-free powder-mixture of sand and inorganic additives
	liquid component	Water-based silicate solution
Max. grain size in powder		0.4 mm
pH-value liquid component		approx. 11
Mixing ratio (Powder : Liquid)		3.8 : 1 (by weight)
Pot life at 15 °C		45 min
Specific gravity (ready mixed)		2.0 g / cm ³
Compressive strength (after 24 h)		> 8.0 N / mm ²
Flexural strength (after 24 h)		> 1.0 N / mm ²
Long term resistant against		Salts which damage building substance, oil, grease, acids (down to pH 1)

Field of application

KÖSTER Silicate Adhesive is suited for bonding and jointing of acid resistant ceramic tile coverings on all mineral substrates such as concrete, masonry and cement plaster; in moist- and wet-rooms and in areas, which are exposed to increased chemical stresses.

Substrate preparation

The mineral substrate has to be level, clean, sound and solid. Substances that affect bonding adversely such as bitumen, paint, oil, etc. must be removed mechanically. The surface has to be pre-wetted so that it is not moist.

Application

Mix KÖSTER Silicate Adhesive in the specified mixing ratio in a clean container into a plastic mortar. The material is applied using a toothed plastering trowel in a maximum layer thickness of 5 mm per work step. Pot life is approx. 45 minutes at 15 °C.

For filling joints, KÖSTER Silicate Adhesive is pushed into the joints using a spatula and excess material is immediately removed using a moist sponge.

KÖSTER Silicate Mortar is cement free, do not add water to the mortar. Material that has started to set may not be mixed up for use again. The mortar must be protected from moisture or water for at least 24 hours after the application.

Consumption

Approx. 2.1 kg / m² per mm layer thickness

Storage

Store the material dry; in originally sealed packages, it can be stored for approx. 12 months.

Packaging

Powder component	25 kg bag
Liquid component	6.6 kg jerry can

Safety precautions

The liquid component contains silicate and acts caustic when coming into contact with skin, eyes or the mucous membrane.

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.