

KÖSTER Silicate Adhesive

Technical guideline / Article number **5.17**
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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 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 mineral 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-access for at least 24 hours after the application.

Consumption

Approx. 2.1 kg / m² per mm layer thickness

Storage

Store the material in a dry place; if stored in originally sealed packages, it can be stored for approx. 12 month.

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.