

Konusit KK 30

Polymer silicate for acid protection
on horizontal and slightly sloped surfaces

Product properties

- Two-component, hand application
- Very high chemical resistance against numerous acids and solvents in the range of pH 0 to pH 8
- Very good adhesion on mineral-based substrates (concrete, brickwork)
- High resistance against mechanical impact, abrasion and high temperatures

Areas of application

- Surface protection of concrete and reinforced concrete components in wastewater industry – especially where exposed to chemical impact due to biogenic sulphuric acid
- Surface protection of concrete and masonry in waste-, chemical and energy industry – especially where exposed to acids combined with thermal and/or mechanical impact

Application

Substrate Preparation

See leaflet “General Application Advice for Coarse Mortars / Concrete Replacement Systems“.

Existing damages and alkali-impellent concrete as well as old concrete substrates must be repaired with Nafufill KM 250 HS. The surface to be coated must be pre-wetted slightly, but not saturated with water. Steel substrates must be cleaned to SA 2 1/2.

Bonding Coat

Before hand application of Konusit KK 30 the bonding coat Konusit HB is brushed into the prepared substrate.

Mixing

Konusit KK 30 is mixed with the liquid component Konusit KK 30-F until homogeneous and lump-free, using forced action mixers. Mixing takes at least 3-5 minutes. Addition of water, aggregates or cement is not permitted. See technical data table on page 2 for mixing ratio.

Application

Konusit KK 30 is only applied onto horizontal or slightly sloped surfaces, using a trowel or float.

Konusit KK 30 can be applied in one or several layers, the layers must be free from pores. Konusit KK 30 is applied fresh-in-fresh into the slightly moist bonding coat. In case of interruptions of work curing agents etc. have to be removed from the surface. The surface must be smoothed before the material starts curing.

Curing

Within the first 7 days after application the surface must be protected against water. Konusit KK 30 must be protected from drying out too rapidly, e. g. with Konusit NB or PE-foils. Condensation water or curing with water is not permitted. Before application of Konusit NB a waiting interval must be observed depending on temperature.

Safety Advice

The safety advice for cement bound materials and substances must be observed. Protective clothes must be worn during application. The safety advice given on the packs must be observed.

General Information

The “General Application Advice” is available on request and must be observed.



Technical Data for Konusit KK 30

Characteristic	Unit	Value	Comments
Fresh mortar raw density	kg/dm ³	approx. 2.2	at 23 °C and 50 % relative humidity
Mixing ratio	p.b.w.	100.0 10 - 13	Konusit KK 30 (25 kg) Konusit KK 30-F (2.5-3.2 kg/1.7-2.2 l)
E-Modulus	N/mm ²	approx. 37,000	at 23 °C and 50 % relative humidity
Flexural tensile strength	N/mm ²	approx. 4 approx. 7 approx. 10	at 23 °C and 50 % relative humidity after 24 h after 7 d after 28 d
Compressive strength	N/mm ²	approx. 15 approx. 35 approx. 55	at 23 °C and 50 % relative humidity after 24 h after 7 d after 28 d
Pull-off strength, lowest single value = 1.0 N/mm ²	N/mm ²	approx. 1.5	(100 % in mineral substrate)
Application conditions	°C % K	≥ 10; ≤ 30 ≤ 85 3	air and substrate temperaturere relative humidity above dew point
Application time	minutes	approx. 30 - 60	depending on temperature
Layer thickness	mm	8 - 20	a minimum layer thickness of 8 mm above grain tips must be observed
Curing times	hours	1.5 - 2.0 1.0 - 1.5 0.5 - 1.0	at 8 °C - 15 °C at 16 °C - 23 °C at 24 °C - 30 °C

Product Characteristics for Konusit KK 30

Colour	grey-beige
Delivery	Konusit KK 30: 25 kg bag Konusit KK 30-F: 30 kg canister
Storage	Can be stored in original sealed packages at temperatures between + 8 °C and + 20 °C in dry conditions for at least 12 months. Protect from frost! The same requirements are valid for transport.
Disposal	Packs must be emptied completely.

High temperatures shorten while low temperatures extend all indicated periods.
Please take notice of the safety information and advice given on the packaging labels and safety information leaflets.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 07/07. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.