

Technical Data Sheet

33.06.415E – 07/06

® KERANOL EP 110

Synthetic resin based jointing mortar with KTW, KSW and DVGW W 270 recommendation

Description

KERANOL EP 110 is a triple-component jointing mortar based on epoxy resin.

Typical uses

KERANOL EP 110 is recommended as a jointing compound for hollow-jointed ceramic tiles and ceramic mosaic tile. Its primarily applied in the ceramic lining of pools, catering kitchens, breweries and plants of the foodstuff industry as well as drinking water facilities.

KERANOL EP 110 has been recommended by the "Drinking Water Concerns" team of the Plastics Commission appointed by the Federal Ministry of Health. Consequently it is approved for use in all sectors related to drinking water as well as for public (outdoor and indoor) swimming and bathing pools.

This mortar also complies with the requirements relevant to the micro-organism propagation in drinking water supply according with the "Technical Regulations, Work Sheet W 270" issued by the German institution DVGW. Hence, from a microbiological point of view, it is also approved for use in all drinking water and swimming pool sectors.

Properties

KERANOL EP 110 is a product that is characterised by its easy application and is available in a wide variety of colour tones, which will ensure a visually attractive appearance.

The application of KERANOL EP 110 as jointing mortar will ensure a smooth finish and wear-resistant execution of the joints.

An outstanding feature of this product is its excellent resistance to alkaline media as well as acids. This mortar hardens with a minimum of shrinkage.

Chemical resistance

Information on the chemical resistance properties will be provided on request.

Substrate

The substrate is defined as the bedding mortar and acid-proof ceramic material.

Surface pretreatment

The surface must be free of all substances that may act as separating agents as well as all impurities.

Application

KERANOL EP 110 consists of a triple-component mortar compound.

Mixing ratios	Standard packaging	Parts by weight (kg)	Parts by volume (l)
KERANOL EP 110 comp. A	5 kg	100	2.00
KERANOL EP 110 comp. B	1.675 kg	33.5	0.80
KCH powder 51	25 kg	500	8.10

It is recommended to apply the mortar compound to the joint with the aid of a mortar injector. Any mortar residue should be removed with a sponge while smoothing the filled joint.

Pot life

Temperature	KERANOL EP 110
15°C	~ 80 minutes
20°C	~ 60 minutes
30°C	~ 25 minutes

Coverage

Split tiles 240 x 115 x 15	approx. 2.5 kg/m ²
Split tiles 240 x 115 x 20	approx. 3.5 kg/m ²
Split tiles 240 x 115 x 25	approx. 4.5 kg/m ²
Split tiles 240 x 115 x 30	approx. 5.0 kg/m ²

Packing

The following standard quantities are available:

KERANOL EP 110 component A	5, 20 kg
KERANOL EP 110 component B	1.675, 6.7 kg
KCH powder 51	25.0 kg

Storage

The products shall be stored in a cool and dry place. With a storage temperature of 23°C the minimum shelf life is as follows:

KERANOL EP 110 component A	12 months
KERANOL EP 110 component B	12 months
KCH powder 51	24 months

Higher temperatures will shorten the shelf life of this products. The packaging drums are to be kept tightly shut and are to be resealed each time material has been removed. All liquid products must be stored frost-free.

Safety

Adequate ventilation is to be provided while work is in progress. Ventilation is compulsory for all work carried out in pits and closed rooms. All vapours that are produced while work is in progress must be continuously suctioned off at floor or bottom level.

Only the amount of material effectively required to continue work is to be stored at the working place. The instructions for the prevention of fire and explosion are to be observed if required.

Please note and ensure that even the smallest quantities of the individual components and/or prepared mixtures are not allowed to reach the sewerage.

All regulations for the prevention of accidents stipulated by the employer's liability assurance association, the regulations for the prevention of accidents prescribed at the site of application and the TRGS 507 „Surface treatment in rooms and tanks“, as well as the safety precautions listed on the packing (label) required by the provisions of the Hazardous Materials Ordinance shall be adhered to. The operating instructions pursuant to § 14 GefStoffV as well as the EC safety data sheets are to be complied with.

Technical data	Test specification	Unit	Parameter
Density	DIN EN ISO 1183-1	g/cm ³	1.8
Compressive strength	DIN EN ISO 604	MPa	75
E-modulus (compression)	DIN EN ISO 604	MPa	5,000
Adhesiveness to tile/bricks	DIN EN 24624	MPa	> 3
Hardness	DIN 53 505	Shore D	80
Dissipation Resistivity (to ground)	DIN EN ISO 1081	Ω	> 10 ⁹
Linear thermal expansion coefficient	DIN 53752	K ⁻¹	40 · 10 ⁻⁶
Max. operational temperature		°C	80

The technical data contained herein represents the current state of our product knowledge and is intended to furnish general information regarding our products and their application spectrum. In view of the diversity and multitude of application possibilities, this data should be regarded solely as general information, which does not guarantee any specific properties and/or suitability of these products for each concrete case of application. Consequently, when ordering a product, please contact us for detailed information relative to the properties required for a specific application. Our technical service will, upon request, furnish a profile of characteristics for the concrete application without delay.

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شرکت کسری نماینده رسمی KCH آلمان