Technical Data Sheet

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® KERANOL EP 210

Synthetic resin based thin-bed bedding mortar for ceramic and mosaic tiles

Description
KERANOL EP 210 is a triple-component bedding mortar based on epoxy resin and containing mineral fillers.

Typical uses
KERANOL EP 210 is recommended as a bedding compound for thin-bedded ceramic tiling, particularly for application in swimming pools and similar representative establishments. The product is generally applied onto a sealing layer consisting of synthetic resins or rubber linings.

Properties
KERANOL EP 210 offers excellent mechanical properties and is resistant to chemicals.
Additionally to its outstanding mechanical properties, excellent adhesion to concrete, steel, rubber linings and synthetic resin sealing layers are remarkable. KERANOL EP 210 hardens with no shrinkage.

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

Substrate
The substrate is defined as concrete, steel or respectively a sealing layer and acid-proof ceramic material.

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

Application
KERANOL EP 210 consists of a triple-component mortar compound.
The ready for use material is applied exclusively in thin-bed technique. This material is not suitable for jointing. Laying ceramic material by means of a tooth spatula (spreader) is suitable only for surfaces subjected to dry loads.

Mixing ratios	Parts by weight (kg)	Parts by volume (l)
Floor		
KCH EP solution 4	100	2.00
KCH EP hardener 2	38	0.88
KCH powder 51	450	7.10
KCH EP solution 4	100	2.00
KCH EP hardener 2	38	0.88
KCH thixotropic agent 1	5.4	1.98
KCH powder 51	300	4.70

Pot life

Temperature	KERANOL EP 210
15 °C	~ 110 minutes
20 °C	~ 90 minutes
30 °C	~ 55 minutes

Coverage
Hollow-joint application approx. 5.5 kg/m²

Packing
The following standard quantities are available:

KCH EP solution 4	20 kg
KCH EP hardener 2	5, 20 kg
KCH thixotropic agent 1	1, 10 kg
KCH powder 51	25 kg

Storage
The products shall be stored in a cool and dry place. With a storage temperature of 20 °C the minimum shelf life is as follows:

KCH EP solution 4	12 months
KCH EP hardener 2	12 months
KCH thixotropic agent 1	24 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/cm³	1.7
Compressive strength	DIN EN ISO 604	MPa	90
Adhesiveness to concrete/screed *)	DIN EN 24624	MPa	> inherent strength substrate
Adhesiveness to tile/bricks	DIN EN 24624	MPa	> inherent strength substrate
Dissipation Resistivity (to ground)	DIN EN ISO 1081	Ω	$> 10^9$
Linear thermal expansion coefficient	DIN 53752	K^{-1}	$40 \cdot 10^{-6}$
Max. operational temperature		°C	80

*) compressive strength 25 MPa

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