

Technical Data Sheet

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® KERANOL FU 320

Electrically dissipating laying and jointing mortar based on synthetic resins for tiling and brick linings exposed to severe stress

Description

KERANOL FU 320 is a two-component laying and jointing synthetic resin mortar based on furan resin. It is free from silicate fillers and is electrically dissipating.

Typical uses

KERANOL FU 320 is suited as laying and jointing material for tiling and masonry exposed to aggressive media. KERANOL FU 320 is especially applied where permanent stress caused by hydrofluoric acid or strong lyes at high temperatures occurs.

KERANOL FU 320 is predominantly used for tiling and masonry in installations of the chemical industry, in plants for phosphoric acid preparation, acid pickling lines or flue gas desulfurization plants. Thanks to its electrically dissipation property KERANOL FU 320 is recommended for all areas where sparking shall be avoided due to the potential risk of explosion.

Advantages

KERANOL FU 320 has very good mechanical properties and offers excellent resistance to acids, especially hydrofluoric acid, strong lyes and organic solvents. KERANOL FU 320 stands out for its high flush-resistance as well as high temperature resistance.

Chemical resistance

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

Substrate

KERANOL FU 320 is applied on rubber linings, synthetic resin coatings and acid-proof ceramic material.

Surface pretreatment

The surface of the substrate shall be free from separating substances and impurities.

Application

KERANOL FU 320 consists of a two-component, electrically conductive mortar compound.

Mixing ratios	Parts by weight (kg)	Parts by volume (l)
KCH FU solution 1	100	2.00
KCH FU powder 10L	350	9.20

Pot life

Temperature	KERANOL FU 320
15°C	~ 75 minutes
20°C	~ 60 minutes
30°C	~ 45 minutes

Coverage

bedding and jointing (bed joint 5mm / cross joint 7mm):

Split tiles 240 x 115 x 20	approx. 15 kg/m ²
Split tiles 240 x 115 x 40	approx. 19 kg/m ²
Bricks 240 x 115 x 65	approx. 23 kg/m ²
Bricks 240 x 115 x 80	approx. 26 kg/m ²

Packing

The following standard quantities are available:

KCH FU solution 1	20, 60, 200 kg
KCH FU powder 10L	25 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:

KCH FU solution 1	24 months
KCH FU powder 10L	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	2.0
Compressive strength	DIN EN ISO 604	MPa	70
Tensile strength	DIN EN ISO 527	MPa	12
Flexural strength	DIN EN ISO 178	MPa	22
Modulus of elasticity (bending)	DIN EN ISO 178	MPa	6,500
Adhesive strength to concrete/screed*)	DIN EN 24624	MPa	> inherent strength of substrate
Adhesive strength to bricks	DIN EN 24624	MPa	> 4
Ball indentation hardness (H 358/30)	DIN 53456	MPa	110
Dissipation Resistivity (to earth)	DIN EN ISO 1081	Ω	< 10 ⁶
Coefficient of linear thermal expansion	DIN 53752	K ⁻¹	25 · 10 ⁻⁶
Maximum operating temperature		°C	180

*) compressive strength 25 MPa, surface primed

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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