

PRODUCT INFORMATION

CHEMOKITT FU 1310 ELUTRIATION MORTAR

PRODUCT DESCRIPTION

CHEMOKITT FU 1310 ELUTRIATION MORTAR is a three-component, cold curing synthetic resin mortar, based on a modified furan resin with mineral fillers.

SYNTHETIC RESIN CONSUMPTION

The **CHEMOKITT FU 1310 ELUTRIATION MORTAR** consists of the **CHEMOKITT FU FILLER 1310**, the **CHEMOKITT FU SOLUTION 1** and the **CHEMOKITT FU HARDENER 1**.

FIELDS OF APPLICATION

CHEMOKITT FU 1310 ELUTRIATION MORTAR is suited as jointing mortar for hollow-jointed acid-resistant ceramic tiles, especially at high chemical exposure to acids, alkalis or organic solvents and high temperature and mechanical stresses.

Main applications are tiling of components in the chemical industry, on traffic and loading areas or in warehouses and workshops.

FEATURES

- Very high mechanical load capacity
- Outstanding chemical resistance, especially against solvents and other organic compounds.
- High temperature resistance

CHEMICAL RESISTANCE

Information on the chemical resistance properties is available upon request.

SUBSTRATE

Substrate of **CHEMOKITT FU 1310 ELUTRIATION MORTAR** is the mortar bed (tiling) and the acid-proof ceramic tiles or bricks.

SURFACE PRE-TREATMENT

The open joints must be free from separating substances and impurities. The top side of the tiles must be protected by **TT PRE COAT** and **TT SEPARATING VANISH**.

ENVIRONMENTAL CONDITIONS

The specified environmental conditions must be observed during surface preparation and brick lining and be tested and recorded according EN 14879-6.

Environmental Conditions	Value
Relative Humidity	≤ 85%
Surface Temperature	≥ +10°C up to +35°C
Application Temperature	+10°C up to +30°C
Dew Point Distance	min. 3K

APPLICATION

TT PRE COAT is applied very thin (wetting) on the tile surface by means of rag or cloth. The joint flanks must not be wetted. The surfaces must be well ventilated. After an intermediate time of at least two hours, the 1st coat of **TT SEPARATING VANISH** is applied as diagonally as possible to the jointing by means of a short nap and solvent resistant roller. After a waiting period of two hours, the second coat of **TT SEPARATING**

VANISH is applied. Depending on the tile surface, several coats of **TT SEPARATING VANISH** are possible.

The joint flanks must remain free of **TT SEPARATING VANISH**. After hardening (at least two hours) of the last coat **TT SEPARATING VANISH**, the **CHEMOKITT FU 1310 ELUTRIATION MORTAR** is applied with a rubber squeegee. After approx. three hours the **CHEMOKITT FU 1310 ELUTRIATION MORTAR** can be removed.

WORK TOOLS

The following tools are essential for the application:

- Stirrer (max. 300 r/min.)
- Measuring cup & Mixing vessels
- Flat / wide brush
- Mortar trowel
- Grouting tool
- Miscellaneous (safety glasses, rubber gloves etc.)

MIXING RATIO

Pour **CHEMOKITT FU SOLUTION 1** in a mixing vessel and add certain amount of **CHEMOKITT FU HARDENER 1** with the specified mixing ratios, then mix. Afterwards add certain amount of **CHEMOKITT FU FILLER 1310** with the specified mixing ratios and mix again. The components must be mixed thoroughly and intensively. The walls and the bottom of the mixing vessel have to be mixed as well considering that mortar may deposit at those areas. Mix for at least three minutes and until a uniform mixture is achieved.

If the **CHEMOKITT FU SOLUTION 1** is filled from drums, the drums must be stirred up before each discharge by using a drum-rollerbuck.

Product	Parts by Weight	Parts by Volume
CHEMOKITT FU SOLUTION 1	100	2.00
CHEMOKITT FU HARDENER 1	3	0.06
CHEMOKITT FU FILLER 1310	180	2.70

CONSUMPTION

Jointing (Cross Joint 7 mm)

Material	Sizes [mm]	Coverage [kg/m ²]
Tiles	240 x 115 x 20	ca. 3
Tiles	240 x 115 x 30	ca. 5
Tiles	240 x 115 x 45	ca. 6

POT LIFE [min]

Product	15°C	20°C	30°C
CHEMOKITT FU 1310 ELUTRIATION MORTAR	ca. 50	ca. 30	ca. 15

CURING (20°C)

Load Capacity	Time
Accessible	ca. 3 h
Chemical load	ca. 7 Days

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CLEANING

Clean all equipment with **SOLVENT T-200** immediately after use.

SAFETY MEASURES

The material safety data sheets of the individual components, the safety instructions on the packing (label) as well as the legal requirements for handling hazardous materials must be observed.

PACKING UNITS

The products are supplied in the following standard package sizes:

Product	Size	Article No.
CHEMOKITT FU HARDENER 1	1 kg	591 0015
CHEMOKITT FU SOLUTION 1	20 kg	591 0070
CHEMOKITT FU SOLUTION 1	200 kg	591 0071
CHEMOKITT FU FILLER 1310	25 kg	591 0010
SOLVENT T-200	4 kg	590 0610
SOLVENT T-200	8 kg	590 0611
TT PRE COAT	1 kg	591 0310
TT SEPARATING VANISH	20 kg	591 0330

STORAGE

The products must be stored in a cool and dry place, away from direct sunlight. At the specified storage temperatures a shelf life of the products is given of at least for the following periods:

Product	Temperature	Shelf Life
CHEMOKITT FU HARDENER 1	5 - 25°C	24 Months
CHEMOKITT FU FILLER 1310	-	24 Months
CHEMOKITT FU SOLUTION 1	5 - 25°C	12 Months
SOLVENT T-200	5 - 25°C	60 Months
TT PRE COAT	5 - 20°C	12 Months
TT SEPARATING VANISH	5 - 20°C	6 Months

If the storage time is exceeded, the materials must be tested before use. Higher storage and transport temperatures will reduce the shelf life. The containers must be kept tightly closed. Liquid products must be stored frost-proof. In addition, the DIN 7716 must be observed.

Technical Data	Standard	Unit	Value
Resistance to Ground	DIN EN ISO 1081	Ω	≥ 10 ⁹
Density	DIN EN ISO 2811 (ASTM D1475)	g/cm ³	1.75
Compressive Strength	DIN EN ISO 604 (ASTM D695)	N/mm ²	> 60
Adhesion Strength	DIN EN ISO 4624	N/mm ²	≥ 4
Coefficient of Thermal Expansion	DIN 53752 (ASTM C531)	1/K	21 x 10 ⁻⁶
Max. Operating Temperature Liquids	-	°C	+100

Note: The indicated temperatures are dependent on the present load and may vary

Information given in the fact sheet above corresponds to the current knowledge available to us regarding our products at the time of its drafting and is intended as a guideline for informational purposes. However, because of the multiple possibilities regarding possible applications, processing and on site conditions, any information given in the fact sheet above is not legally binding, in particular, without being limited to, such information shall not be interpreted as a warranty of merchantability or of fitness for a particular purpose. Customer therefore is advised to conduct its own testing or make an inquiry with our technical department before ordering. We reserve the right to change the product at any time, in particular, without being limited to, minor changes because of advancements in technology. If by way of exception, the information given in the fact sheet above is incorporated by reference into any contract concluded with us under German Law, such information, shall only be interpreted as determining the specific requirements of the contractual products as set out in § 434 BGB (German Civil Code) and shall not be interpreted as constituting a guarantee of condition.

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