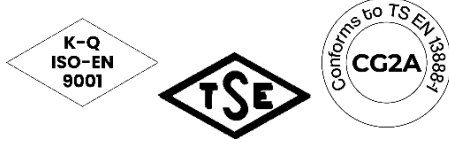


FUGA KRAFT FLEX

DESCRIPTION

It is a cement-based, polymer-added, water impermeable, elastic and resistant to various chemicals filling material used for filling the joint gaps of the spaces furnished with ceramic, tile, granite, glass mosaic, porcelain mosaic and similar surface coating materials.



TS EN 13888-1 Joint Filling Materials for Tiles - Requirements, conformity assessment, classification and demonstration
Conforms to class CG2A.

CG2 = Improved tile grouting material with additional properties
A = increased abrasion resistance

USAGE PLACES

- Indoor and outdoor
- It can be safely used in joint gaps on surfaces furnished with ceramic, tile, granite and other coating materials.

POINTS TO PAY ATTENTION TO

- It gives good results in joint applications up to 2-8 mm. It should not be used in wider joint applications.
- It is not used in places exposed to high pressure and heavy chemicals.
- Joint applications should be made 24 hours after the adhesive application is completed. Make sure that the adhesive is dry under the coating material. Otherwise, the water in the adhesive penetrates into the joint and causes the colour of the joint to fade or change.
- KRAFT Joint Protector** should be used to protect the joint filling colour of the coloured joints exposed to water and sun rays and to ensure a longer life. (see **KRAFT Joint Protector**)
- Avoid application under sun and strong wind. Make sure that the surface temperature is between +5°C and +25 . °C
- It is recommended to use protective gloves during applications. For more detailed protective measures, please refer to the material safety data sheet of the product.

ADVANTAGES

- It is a flexible material with high abrasion resistance.
- Water repellent and difficult to contaminate.
- Easy to prepare and apply.
- 29 different colour options.
- Resistant to freeze-thaw cycle.
- Resistant to neutral and alkaline cleaners.

SURFACE PREPARATION

Before application, sawdust, dust, cement residues etc. should be cleaned with a brush. Cement residues remaining on the coating materials should be cleaned with **KRAFT Cement Cleaner** (see **KRAFT Cement Cleaner**) Make sure that the adhesive under the coating is dry.

USAGE

1 bag of FUGA KRAFT FLEX is added into the water specified in the mixture ratios and mixed for 5 minutes with the help of a 400-600 rpm mixer until it reaches paste consistency. The prepared mixture is left to rest for 5 minutes. Then, it is mixed again and applied to the joint gaps with the help of rubber-based derzer or squeegee. Due to the material content, it sets a little later than normal joints and cleaning is done after waiting for 15-20 minutes. (For the cleaning process, pressure is applied on the joint with a finger. Wait until the material withstands the pressure and as soon as the material does not contaminate the finger, water is applied to the surface and the surface is cleaned with the help of a damp sponge to ensure surface smoothness).

VARLIK MINERAL GEOTHERMAL ENERGY MINING CONSTRUCTION TRADING CO.

CENTRE: Beştepe Mah.No:1/113 Yenimahalle/Ankara

ANTALYA FACTORY: Çıplaklı Mah. 22171 Cd. No:14 Döşemaltı/Antalya

E-MAIL info@kraftbau.com.tr

TEL: 444 6 190

Kraftbau.com.tr

FUGA KRAFT FLEX

TECHNICAL DATA SHEET

MIXING RATIOS

FUGA KRAFT FLEX	5kg	20kg
Amount of water required for the mixture	1,5-2 kg water	6-7 kg water

EXPENDITURE

Ceramic Sizes	Cement based joint sealant consumption table					
	Depth 8 mm					
	Joint widths					
	2mm (g/m ²)	3mm (g/m ²)	4mm (g/m ²)	5mm (g/m ²)	6mm (g/m ²)	8mm (g/m ²)
10 x 10 cm	525	775	1025	1325	1550	2050
10 x 20 cm	400	575	775	1000	1150	1550
15 x 15 cm	350	525	700	875	1050	1400
15 x 20 cm	300	450	600	750	900	1200
15 x 30 cm	275	400	525	700	800	1050
20 x 20 cm	275	400	525	700	800	1050
20 x 25 cm	250	350	500	625	700	1000
20 x 30 cm	225	325	450	575	650	900
30 x 30 cm	175	275	350	450	550	700

Values are theoretical and show powder product consumption. The following calculation can be used for the consumption values of coating materials of different sizes.

$$\text{Joint sealant consumption in powder form (kg/m}^2\text{)} = \frac{((\text{coating length-mm} + \text{coating width-mm}) \times \text{joint width (mm)} \times \text{joint width (mm)} \times \text{joint de (width (mm)} \times \text{joint filling density) (factor)})}{(\text{coating length-mm} \times \text{coating width-mm})}$$

Example: The amount of joint filler required for 8mm joint depth and 4 mm joint width of 10cm x 10cm coating material

$$\text{Joint sealant consumption in powder form (kg/m}^2\text{)} = \frac{((0 (100 + 100) \times 4 \times 8 \times 1.6) (0^*))}{(100 \times 100)} = 1.025 \text{ kg/m}^2 = 1025 \text{ g/m}^2$$

FUGA KRAFT FLEX joint density factor = 1,60

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FUGA KRAFT FLEX TECHNICAL DATA SHEET

TECHNICAL SPECIFICATIONS

Colour	20 colour options
Material Content	Contains polymer modified additives and mineral filler with cement.
Abrasion Resistance (EN 12808-2)	$\leq 1000 \text{ m}^3$
Application Range	minimum 2mm, maximum 8mm
Grain Size (EN 12192-1)	$D_{(max)} < 0.2 \text{ mm}$
Maturation Time	5 minutes
Cleaning Time	15-20 min (time may be shorter or longer depending on ambient temperature)
Temperature Resistance	$-40^{\circ}\text{C} / +100^{\circ}\text{C}$
Container Life	1.5 hours
Flexural Strength (EN12808-3)	$\geq 2.5 \text{ N/mm}^{(2)}$ (after dry storage) $\geq 2.5 \text{ N/mm}^{(2)}$ (after freeze-thaw cycle)
Compressive Strength (EN 12808-3)	$\geq 15 \text{ N/mm}^{(2)}$ (after dry storage) $\geq 15 \text{ N/mm}^{(2)}$ (after freeze-thaw cycle)
Shrinkage (EN 12808-4)	$\leq 3 \text{ mm/m}$
Water Absorption (EN 12808-5)	$\leq 5 \text{ g}$ after 30 min $\leq 10 \text{ g}$ after 240 min
Shelf Life	12 months from the date of manufacture under appropriate storage conditions When not in use, the packaging should be tightly closed and the material should be consumed within 1 week at the latest.



The above values are valid at $+21^{\circ}\text{C}$ and 50% relative humidity.

PACKAGING and STORAGE

CODE	PACKAGING
KR-200	FUGA KRAFT FLEX -20 kg
KR-200	FUGA KRAFT FLEX -10 kg
KR-200	FUGA KRAFT FLEX -5 kg

Store the material in its unopened packaging in a dry environment, protected from frost. Do not stack pallets on top of each other especially for long term storage.

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