

FleksFuga®

Cement Based Flexible Grouting for Ceramics and Tiles

Material Description

FleksFuga® is a cement based, grouting material decorative for ceramic, tile, marble and granite interlines which is not effected by water and which is resistant against vibrations, elongations and contractions due to temperature changes.

Complies with EN 13888 - CG2WA class

CG2= Enhanced Cement based grouting (fulfilling additional properties)

W= Reduced Water absorption property

A= Highly abrasion-resistant

Areas of Application

- Indoor and outdoor areas, in vertical and horizontal applications
- In filling the grouting holes of ceramics, tiles, marble and granite adhered on existing surfaces
- Shopping centers
- On commercial and industrial floors
- In hotels
- In hospitals
- In wet spaces
- In domiciles

Characteristics and Benefits


- Prepared and applied easily.
- Does not scratch silvered surfaces.
- It is suitable for grouting holes with the widths 2-8 mm.
- Provides excellent adhesion to the edges of tiles without cracking.
- Has a long machinability duration. Smooth surfaces are obtained.
- Since it has little water absorbance it hardly gets dirty and can be cleaned easily.
- Freeze-thaw cycle resistant.
- Resistant to impacts, vibrations and detergents.

Processing Method

(A) Preparation of Substrate

Before filling ceramics and tile grouting holes, it must be waited for the used adhesive to achieve sufficient hardness. Just before interlining materials are applied, the surface must be cleaned without being harmed and must be dampened with a wet sponge.

Technical Properties

Structure of The Material	It contains mineral fillings, sythetic additives and special cement.	
Color	Grey, White	
Pressure Resistance	≥15 N/mm ²	
Bending Resistance	≥2,50 N/mm ²	
Water Absorbion: 30 minute 240 minute	≤2 gr ≤5 gr	
Abrasion Resistance	≤1000 mm ³	WK 
Application Surface Temperature	+5°C +25°C	
Service Temperature	-20°C +80°C	
Maturation Period	3-5 minutes	
Usage Duration	2 hours	
Life Water Deliverance	10-20 minutes	
Walking Over Duration	24 hours	

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(B) Mixing

Pour the amount of water indicated in the Mixing Ratios table into a clean mixing container with the assistance of a measuring cup. Add **FleksFuga®** slowly while mixing with a mixer that has a revolving frequency of 400-600 rev/min for about 3-5 minutes until a homogeneous mixture without pellets is obtained. Set it aside for about 3-5 minutes and the material becomes ready to use after it is mixed again for 30 more seconds.

Mixing Ratio

FleksFuga®	Amount of Mixture Water	Density of Mixture
For 1 kg powder	Max. 0,32 liter	~1,80 kg/liter
For 20 kg bag	Max. 6,40 liter	

(C) Processing

Spread **FleksFuga®** over the ceramics with a rubber trowel and fill the grouting interspaces. Skim the excessive material is off the grouting holes with diagonal moves. In deep grouting holes, first, wait for the settling of the material and repeat this procedure. Wait until the material can withstand the pressure of a finger and upon cleaning the whole surface with a wet sponge, give the life water that is necessary for the completion of the hydration. Clean the remaining materials on the surface of the ceramics with a wet sponge and give the final shape to the interlines. After the material gets dry (the day after by the latest), polish up the ceramics with a dry and clean topings.

Consumption

Ceramic Dimensions	FleksFuga®					
	Coverage Tble For Cement Based Grouting Hole Depth. 8 mm					
	Grouting Widths					
	2 mm (gr/m²)	3 mm (gr/m²)	4 mm (gr/m²)	5 mm (gr/m²)	6 mm (gr/m²)	8 mm (gr/m²)
10x10	500	700	1000	1250	1500	2000
10x20	350	550	750	950	1150	1550
15x15	300	450	600	800	950	1250
15x20	250	400	550	750	900	1150
20x20	250	350	500	700	800	1050
20x25	200	350	500	600	750	1000
20x30	200	300	450	550	650	900
30x30	150	250	350	450	550	700

Coverage Amounts are theoretical. They show powdered product Coverages.

Point to Consider

- Avoid **FleksFuga®** application under excessive heat or wind and/or when the ambient and/or substrate temperature is below +5 or above +25.
- Do not add water and/or new material to a **FleksFuga®** mixture which has started getting dry under any circumstances. Ceramics with high water absorbing capacity must be saturated with water before the application.
- About 10-20 minutes after the application of the material a test must be made by exerting pressure with a finger.
- If no material is getting smudged on the fingers in the finger test, the process of giving life water to the interlines must be started. Thus dust extraction of the interlines, or their getting cracked is prevented and a perfect surface regularity is achieved.
- The surface cleansing procedure must not be carried out by using sawdust.

Cleaning of Tools

All the tools and equipments must be cleaned by water after the application. After **FleksFuga®** is hardened, it can only be removed from the surface mechanically.

Packaging

FleksFuga® is available in 20 kg polyethylene reinforced kraft bag.

Shelf Life

12 months if stored according to manufacturer's instructions in unopened container. Opened packages have to be stored by tightly sealing the bag, and must be used in one week.

Storage

Must be stored in unopened original packing, and in cool and dry environment protected from freezing. In short-term storing, maximum 3 palettes can be

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stowed on top of each other and delivery has to be according to first in first out system. In long-term storing, the palettes must not be stowed on top of each other.

Health and Safety

During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.

Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

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