

# FleksFuga® Pool

Cement Based Grouting with High Resistance Especially Designed for Swimming Pools

## Material Description

**FleksFuga® Pool** is a cement based, easily applied grouting material used in places like pools, baths, saunas, spas for the grouting of overlays like pool ceramics, granite ceramics, marble, glass, mosaic, porcelain ceramics.

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

- In indoor and outdoor spaces, in vertical and horizontal applications,
- In the grouting of pool ceramics, granite ceramics, marble, glass mosaics, porcelain ceramics adhered to existent surfaces,
- In swimming pools and decoration pools,
- In water reservoirs,
- In baths and saunas,
- In terraces and balconies,
- In areas where mechanical and chemical cleaning is performed.

## Characteristics and Benefits

- It attains an excellent resistance to pool and cleaning chemicals with its high technology.
- It reduces dirt penetration to a minimum with its high density structure.
- It is resistant to neutral and alkali cleaning substances.
- When compared with other cement based interliners its endurance against acidic cleaners has been increased.
- It can endure +150°C and being cleaned with a water jet with a high pressure of 100 bars.
- It is suitable for grouting hole widths from 1 mm up to 8 mm.
- It solidifies without cracks.
- It is freeze-thaw cycle resistant.
- It has one part. It is easily applied and cleaned like other cement based interliners.

## Technical Properties

Structure Of The Material	It Contains High Technology Filling, Sythetic Additives and Special Cement.	
Color	Grey, White	
Pressure Resistance	≥40 N/mm <sup>2</sup>	
Bending Resistance	≥2,50 N/mm <sup>2</sup>	
Contraction Value	≤3 mm/m	
Abrasion Resistance	≤1000 mm <sup>3</sup>	
Water Absorbion:		
	30 minutes	≤2 gr
	240 minutes	≤5 gr
Application Surface Temperature	+5°C +30°C	WK 
Service Temperature	-20°C +250°C	
Maturation Period	3-5 minutes	
Usage Duration	60 minutes	
Regimentation Duration:		
Walkable After	6 hours	
Exposure To Water After	24 hours	

All figures are at +23°C with a relative humidity of 50%. High temperatures cause shorter cure times and vice versa.

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## Processing Method

### (A) Preparation of Substrate

Before filling the pool ceramic, granite ceramic, marble, glass mosaic, porcelain ceramic grouting holes it must be waited for the used adhesive to achieve sufficient hardness. Just before pplying **FleksFuga® Pool**, the surface must be cleaned with mechanical methods without being harmed and must be dampened with a wet sponge.

### (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® Pool** 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® Pool	For 1 kg of Powder	For 20 kg Bag
Mixture Water	Max. 0,20 liter	Max. 4,00 liter
Mixture Density	~2,22 kg/liter	

### (C) Processing

Spread **FleksFuga® Pool** over the ceramics with a rubber trowel and fill the grouting interspaces. Skim the excessive material off the grouting holes diagonally. In deep grouting holes, first wait for the settling of the material and then 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 oakum.

## Consumption

Ceramic Dimensions	Consumption Table For Cement Based Grouting, 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)
2,5X2,5	2500	3700	-	-	-	-
5X5	-	1900	-	-	-	-
10X10	-	1000	1350	1750	2100	2800
10X20	-	750	1050	1300	1550	2050
20X20	-	550	750	900	-	-
30X30	-	350	500	600	-	-

## Point to Consider

- **FleksFuga® Pool** must be mixed with the assistance of mechanical mixers, it definitely must not be mixed with a trowel.
- Avoid **FleksFuga® Pool** application under excessive heat or wind and/or when the ambient and/or substrate temperature is below +5 or above +30.
- Do not add water and new material to a **FleksFuga® Pool** 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.
- The mixture water amount may be increased for easy application in horizontal applications.

## Cleaning of Tools

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

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## Packaging

20 kg polyethylene reinforced kraft bag

## Shelf Life

12 months after the production date under appropriate storing conditions. 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 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

It is dangerous to approach the application sites. 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

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