

# FleksFuga<sup>®</sup> Pool (MasterCrete<sup>®</sup> TIL 565)

Cement-Based High-Performance Grout Especially Designed for Swimming Pools

## Material Description

**FleksFuga<sup>®</sup> Pool** is a cement-based grout that is resistant to mechanical loads, pool chemicals, and bacteria. It is designed for use in swimming pools, hammams, saunas, thermal baths, and similar areas, and is suitable for grouting pool tiles, porcelain tiles, granite ceramics, marble, and glass mosaics. It is easy to apply and clean.

Complies with EN 13888 - CG2WA class

CG2= Enhanced cement-based grout (fulfilling additional properties)

W= Reduced water absorption

A= High abrasion resistance

## Areas of Application

- In indoor and outdoor areas, for vertical and horizontal applications,

- In swimming pools and decorative pools,
- For grouting pool ceramics, granite ceramics, marble, glass mosaics, and porcelain tiles applied on existing surfaces
- In water reservoirs,
- In baths and saunas,
- In terraces and balconies,
- Suitable for areas cleaned with mechanical methods and appropriate chemicals.

## 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 resistance to acidic cleaners has been improved.
- It can withstand +250 °C and cleaning with a water jet at 100 bars.

Technical Properties		
Structure of The Material	Contains high-performance fillers, synthetic additives, and special cement	
Color	Grey, White	
Compressive Strength	≥40 N/mm <sup>2</sup>	
Flexural Strength	≥2,50 N/mm <sup>2</sup>	
Contraction Value	≤3 mm/m	
Abrasion Resistance	≤ 1000 mm <sup>3</sup>	
Water Absorption:	30 minutes	≤2 g
	240 minutes	≤5 g
Application Surface Temperature	+5°C +30°C	
Service Temperature	-20°C +250°C	
Slaking Time (Maturation Period)	3-5 minutes	
Working Time	60 minutes	
Walkable After	6 hours	
Exposure To Water After	24 hours	
Full Performance	7 days	

The above values are given for +23 °C and 50% relative humidity. Higher temperatures shorten these times, while lower temperatures extend them.

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- It solidifies without cracks.
- It is suitable for grouting hole widths from 1 mm up to 8 mm.
- It is freeze-thaw cycle resistant.
- It has one part. It is easily applied and cleaned like other cement-based grouts.

## Processing Method

### (A) Preparation of Substrate

Before filling the pool ceramic, granite ceramic, marble, glass mosaic, porcelain ceramic joints it must be waited for the used adhesive to achieve sufficient hardness. Just before applying **FleksFuga® Pool**, the surface must be cleaned with mechanical methods without damaging the tiles 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 using 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 lumps 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/L	

*In cold conditions, the amount of mixing water should be reduced, while in hot conditions it should be increased.*

### (C) Processing

Spread **FleksFuga® Pool** over the ceramics with a rubber trowel and fill the joints. Skim the excessive material off the joints diagonally. In deep joints, 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 initial moistening 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 joints. After the material gets dry (the day after by the latest), polish up the ceramics with a dry and clean, dry cloth.

## Consumption

Ceramic Dimensions	Consumption Table For Cement Based Grouting, Grouting Hole Depth: 8 mm Grouting Widths					
	2 mm (gr/m <sup>2</sup> )	3 mm (gr/m <sup>2</sup> )	4 mm (gr/m <sup>2</sup> )	5 mm (gr/m <sup>2</sup> )	6 mm (gr/m <sup>2</sup> )	8 mm (gr/m <sup>2</sup> )
	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°C or above +30°C.
- 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 should be lightly moistened; no free water should remain on the surface.
- 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 initial moistening (light water misting) of the joints must be started. Thus dust extraction of the joints, 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.

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- The mixture water amount may be increased for easy application in horizontal applications.

## Cleaning of Tools

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

## 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

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.

## Contact

MBT Teknik Yapı Kimyasalları San. ve Tic. A.Ş.  
Eyüp Sultan Mah. Sekmen Cad. Hayy 1000A No:26/8  
Sancaktepe, İstanbul  
Tel: 0216 561 35 45 www.mbt-tech.tr

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<b>MBT TEKNİK YAPI KİMYASALLARI SAN. VE TİC. A.Ş.</b>	
Adres // Address Eyüp Sultan Mah. Sekmen Cad. HAYY 1000A No:26 K:5 D:8, 34885 Sancaktepe, İstanbul, TÜRKİYE Üretim Yeri // Plant Ferizli OSB Mah. 10. Cad. Dış Kapı No: 2 Ferizli, Sakarya, TÜRKİYE	
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GDOP NO: 2301003	
TS EN 13888-1	
FleksFuga® Pool (MasterCrete® TIL 565) CGZWA	
<b>Azaltılmış Su Emme ve Yüksek Aşınma Dayanımı, İlave Nitelikli Geliştirilmiş, Çimentolu Derz Dolgu Malzemesi</b> <i>Improved cementitious grout with additional characteristics of reduced water absorption and high abrasion resistance</i>	
Kuru Depolamadan Sonra Eğilme Dayanımı <i>Flexural Strength After Dry Storage</i>	≥ 2,5 N/mm <sup>2</sup>
Donma-Çözülme Çev. Sonra Eğilme Dayanımı <i>Flexural Strength After Freeze-Thaw Cycle</i>	≥ 2,5 N/mm <sup>2</sup>
Kuru Depolamadan Sonra Basınç Dayanımı <i>Compressive Strength After Dry Storage</i>	≥ 15 N/mm <sup>2</sup>
Donma-Çözülme Çev. Sonra Basınç Dayanımı <i>Compressive Strength After Freeze-Thaw Cycle</i>	≥ 15 N/mm <sup>2</sup>
Buzlulma <i>Shrinkage</i>	≤ 3 mm/m
Yüksek Aşınma Direnci <i>High Abrasion Resistance</i>	≤ 1 000 mm <sup>3</sup>
Azaltılmış Su Emme, 30 Dakika Sonra <i>Reduced Water Absorption After 30 Minutes</i>	≤ 2 g
Azaltılmış su emme, 240 Dakika Sonra <i>Reduced Water Absorption After 240 Minutes</i>	≤ 5 g

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