

DURAFUG® HF

Mastertile® 565 HF

Cement Based Grouting with High Resistance Especially Designed for Pools

Description of Product

DURAFUG® HF 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 TS EN 13888 - CBG2 class

CBG=Cement based grouting, 2=Enhanced grouting materials (fulfilling additional properties)

Fields of Application


- In indoor and out door 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.

Features 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.

Technical Data

Structure of the material	It contains high technology fillings, sythetic additives and special cement.	
Pressure Resistance	> 50 N/mm ²	
Bending Resistance	> 3,50 N/mm ²	
Contraction Value	< 2 mm/m	
Abrasion Resistance	<1000 mm ³	
Water Absorbtion:		
30 minutes	<2gr	
240 minutes	<5 gr	
Application Surface Temperature	+5°C +25°C	
Service Temperature	-20°C +250°C	
Maturation Period	3 - 5 minutes	
Usage Duration	60 minutes	
Regimentation Duration:		
Walking Over Duration	6 hours	
Exposure to water	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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- 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 component. It is easily applied and cleaned like other cement based interliners.

Application Procedure

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 applying **DURAFUG® HF**, the surface must be cleaned with mechanical methods without being harmed and must be dampened with a wet sponge.

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 **DURAFUG® NT** 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 Ratios

DURAFUG® HF	For 1 kg of Powder	For 20 kg Bag
Mixture Water Amount	Max. 0,20 liter	Max. 4,00 liter
Mixture Density	~2,22 kg/liter	

The mixture water amount must be decreased in low temperatures and it must be increased in high temperatures.

Application Method

Spread **DURAFUG® HF** 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.

Coverage

Ceramic Dimensions	Coverage Table For Cement Based Grouting, Grouting Hole Depth: 8 mm					
	Grouting Widths					
	2 mm (gr/m ²)	3 mm (gr/m ²)	4 mm (gr/m ²)	5 mm (gr/m ²)	6 mm (gr/m ²)	8 mm (gr/m ²)
2,5 x 2,5	2500	3700	-	-	-	-
5 x 5	-	1900	-	-	-	-
10 x 10	-	1000	1350	1650	2000	2650
10 x 20	-	750	1050	1300	1550	2050
20 x 20	-	550	750	900	-	-
30 x 30	-	350	500	600	-	-

Coverage Amounts are theoretical. They show powdered product Coverages.

Watchpoints

- **DURAFUG® HF** must be mixed with the assistance of mechanical mixers, it definitely must not be mixed with a trowel.
- Avoid **DURAFUG® HF** application under excessive heat or wind and/or when the ambient and/or substrate temperature is below +10 or above +30.
- Do not add water and new material to a **DURAFUG® HF** 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

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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

Used tools and equipment must be cleaned with water after the application. Once cured, **DURAFUG® HF** can be removed off of a surface with **PCI-Elofix®**.

Standard Colors

White	No:20
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Packaging

20 kg polyethylene reinforced kraft bag.

Storage

Store in an unopened, original container, under dry and cool conditions and protect against frost. For short term storage, do not stack more than 3 palettes on top of each other and dispatch them on a first come - first go basis. Palettes should not be stacked on each other on a long term basis.

Shelf Life

12 months in original unopened packaging if stored in appropriate conditions. Opened Packagings should be consumed in one week.

Health and Safety Precautions

The following protective measures should be taken when working with the material: Wear safety gloves, goggles and protective clothing which comply with the Occupational Health and Safety Rules. Because of the irritation effect of the uncured material, component should not come

in contact with the skin or eyes. Under such circumstances, the effected area should be washed with plenty of water and soap. If swallowed, seek medical attention immediately. Do not drink or eat at the application site Keep out of reach of children. Please refer to the Material Safety Data Sheets for detailed information.

Disclaimer

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