

MasterTile® JF 560

Cement Based Grouting With High Mechanical and Chemical Resistance for Surfaces Under Intensive Traffic

DESCRIPTION OF PRODUCT

MasterTile® JF 560, is a cement based, easily applied fluent grouting material that is used for the grouting of coatings like ceramics, marble, granite, antacid ceramics and natural stone with high mechanical resistance and that can resist various chemicals.

Complies with EN 13888 - CG2WA class

CG2= Enhanced Cement based grouting (fulfilling additional properties)

W= Reduced Water absorption property

A= Highly abrasion-resistant

FIELDS OF APPLICATION

- Indoor and outdoor areas, horizontal applications
- In filling the grouting holes of coating materials like ceramics, marble, granite, antacid ceramics and natural stone existent on surfaces
- In terraces and balconies
- On industrial floors under intensive traffic
- On surfaces where mechanical or chemical cleaning is performed
- In ceramics and granite coating grouting of areas like kitchens, washing areas, sale and exhibition halls
- In vertical applications, the application may be made by using the reduced water proportions in the mixing ratios table

FEATURES AND BENEFITS


- Attains an excellent resistance to mechanical loads with its high technology.
- Reduces dirt penetration to a minimum with its high density structure.
- Resistant to neutral and alkali cleaning substances.
- When compared to other cement based interliners, its endurance against acidic cleaners has been increased.
- It can endure +250°C and being cleaned with a water jet with a high pressure of 100 bars.
- It is suitable for grouting hole widths from 3 mm up to 20 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.
- It can contact with potable water.

APPLICATION PROCEDURE

Preparation of Substrate

Before filling ceramics and tile grouting holes, it must be waited for the used adhesive to achieve sufficient hardness. Just before applying **MasterTile® JF 560**, the surface must be cleaned with methods that will not be harmful to the surface and must be dampened with a wet sponge.

TECHNICAL DATA

Material Data	It Contains High Technology Filling, Synthetic Additives and Special Cement.		
Compressive Strength	≥50 N/mm ²		
Flexural Strength	≥2,50 N/mm ²		
Contraction Value	≤3 mm/m		
Abrasion Resistance	≤1000 mm ³	WK	
Water Absorbtion			
30 minutes	≤2 gr		
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		
Duration for Opening To Traffic	7 days		

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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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 **MasterTile® JF 560** 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

MasterTile® JF 560	For 1 kg powder	For 20 kg bag
Mixture Water	Max. 0,17 liter	Max. 0,85 litre
Density of Mixture	-2.22 kg/liter	

APPLICATION METHOD

Spread **MasterTile® JF 560** 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 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					
	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)	10 mm (gr/m ²)
20X20	550	725	900	1100	1450	1800
20X25	500	650	850	1000	1350	1650
20X30	450	600	750	900	1200	1500
30X30	350	500	600	700	950	1200
60X60	180	250	300	350	475	600
60X120	150	180	225	275	350	450
100X100	180	250	300	350	475	600

Coverage Amounts are theoretical. They show powdered product Coverages.

WATCH POINTS

- **MasterTile® JF 560** must be mixed with the assistance of mechanical mixers, it definitely must not be mixed with a trowel.
- Avoid 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 **MasterTile® JF 560** 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.
- **MasterTile® 700** must be preferred in areas where more aggressive chemicals are being used.

CLEANING OF TOOLS

Used tools and equipment must be cleaned with water after the application. Once cured, **MasterTile® JF 560** can be removed off of a surface only mechanically.

STANDARD COLORS

White
 Grey

PACKAGING

5 kg and 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 palletes on top of each other and dispatch them on a first come - first go basis. Palletes 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.

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CHEMICAL RESISTANCE TABLE

Organic Acids		Solvents	
Formic acid	(+)	Acetone	+
Acetic acid	(+)	Butil alcohol	+
Lactic Acid	-	Ethanol	+
Oxalic acid	+	Isopropanol	+
Tartaric acid	+	Petroleum Ether	+
Sitric acid	(+)	Formaldehyde	+
		Klisen	+
Alkalis		Other	
Ammonia	+	Petroleum	+
Calcium Hydrate Solution	+	Enhanced Solution	+
Hypochlorite	+	Glycerin	+
Koltic Potassium Solution	+	Whey Acid	+
Kostic Soda Solution	+	Hydorgen Peroxide	+
Oils			
Diesel Oil	+		
Paraffin Oil	+		
Hydraulic Oil	+		
Silicone Oil	+		
Salad Oil	+		
Turpentine Oil	+		
Marks: + Resistant, (+) Limited Resistance, - Not Resistant			

HEALTH AND SAFETY PRECAUTIONS

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. **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is only responsible for the quality of the product **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** 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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ADRES / ADRESS BARBAROS MAH. BEGONYA SOK. NIDAKULE ATAŞEHİR KUZEY C KAPISI NO:3E/5 34746 ATAŞEHİR/İSTANBUL	
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ÜRÜN İSMİ/ PRODUCT NAME MASTERTILE JF 560	
TIP TÜR / TYPE: CG2WA Azaltılmış Su Emme ve Yüksek Aşınma Dayanımı, İlave Nitelikli Geliştirilmiş, Çimentolu Derz Dolgu Malzemesi / Improved cementitious grout with additional characteristics of reduced water absorption and high abrasion resistance	
Aşınma Direnci / Abrasion Resistance	≤1000 mm ³
Kuru depolamadan sonra eğilme dayanımı / Flexural strength after dry storage	≥2,5 N/mm ²
Donma-Çözünme çevriminden sonra eğilme dayanımı / Flexural strength after freeze-thaw cycles	≥2,5 N/mm ²
Kuru depolamadan sonra basınç dayanımı / Compressive strength after dry storage	≥15 N/mm ²
Donma-Çözünme çevriminden sonra basınç dayanımı / Compressive strength after freeze-thaw cycles	≥15 N/mm ²
Büzülme / Shrinkage	≤3 mm/m
Su emme, 30 dakika sonra / Water absorption after 30 min	≤2 g
Su emme, 240 dakika sonra / Water absorption after 240 min	≤5 g