

MasterTile 700 (Formerly known as Mastertile 700)

Epoxy Based, Two Component, Grouting Filling and Ceramic Adhesive Resistant to Chemicals and Bacteria

Description of Product

MasterTile® 700 is an epoxy reaction resin based grouting and adhesion material that can be cleaned with water, easily applied, is resistant to chemicals and bacteria, and used in the adhesion or grouting hole filling of materials like ceramics, marble, granite, antacid ceramics, glass mosaic and glass brick.

Complies with TS EN 13888 - RG class (For grouting hole filling) Complies with TS 11140 EN 12004 - R2T class (For Ceramic Adhesive)

RG= Reaction resin based grouting filling materials.

R2= Reaction resin based adhesive with developed additional properties T= Reduced sliding property

Fields of Application

In indoor and outdoor spaces, in vertical and horizontal applications,

In filling the grouting holes of ceramics, marble, granite, antacid ceramics, glass mosaic and glass bricks adhered to existing surfaces.

In beer, wine and raisin industries, In beverage and fruit juice industries, In milk, cheese and yogurt industries, In tomato paste, pickle and canned food industries,

In meat and fish industries,

Structure of the Material MasterTile® 700 Component A MasterTile® 700 Component B	Epoxy Resin Epoxy Hardener	
Pressure Resistance	> 45 N/mm ²	WK
Bending Resistance	> 30 N/mm ²	
Rupture Resistance	> 2,50 N/mm ²	1
Adhesion Resistance In Cutting	> 2,00 N/mm ²	
Water Absorbtion	< 0,10 gr (after 240 minutes)	
Application Surface Temperature	+10°C +25°C	
Service Temperature:		
Continuous In Dry Media In	-20°C +80°C	
Wet Medium	-20°C +50°C	
Usage Duration	~45 minutes	
Open Waiting Duration	> 20 minutes	
Sliding	None	
Walking Over Duration	24 hours	NIC.
Duration For Opening to Traffic	r 50% High componentures	×.

Technica| Data

cause shorter cure times and vice versa.





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In medicine, paint, paper, accumulator and manure industries,

In printing houses, hotel kitchens and laundries, In hospital laboratories, dining halls, wet spaces and hygienic environments,

In swimming pools and thermal pools, Waste water and purification facilities, In shopping centers.

Features and Benefits

It is resistant to chemicals, acids, alkalis and oils.

It has anti-bacterial properties and it does not compose mildew, fungus and bacteria.

It has high abrasion resistance.

Applied MasterTile® 700 does not keep the dirt on it and its after cleaning is easy.

It is suitable for grouting hole widths from 2 mm up to 10 mm.

It is resistant to sudden temperature changes that last for a short period of time.

It is freeze-thaw cycle resistant.

It can be used in contact with drinking water. (complies with BS 6920 standards)

Application Procedure

Preparation of Substrate

For the Adhesive Make sure that the surfaces are robust, dry, supportive, free of dust, clean and also poise and even. The surface must be cleaned of the remainders of substances like oil, mold separator and paraffin and there must be no loose particles on the surface.

Ceramic Application

The surface must be dry and must have taken its resistance for 28 days. A spread thickness of 2 mm must be obtained by using a rake with 4 mm prongs depending on the dimensions of

the ceramics and the filling of the interlines must be started the following day.

Preparation of Substrate for Grouting

Before filling antacid ceramics and granite grouting holes, wait for the used adhesive to achieve sufficient hardness. The surface must be cleaned with methods that will not damage the ceramics just before the application of interline materials.

Mixing

MasterTile® 700 has been Packagingd in the amount that has to be mixed. If only some of the Packaging content is going to be used, a mixture is prepared in the ratio Component A / Component B = 100/4 (by weight). Mix the two components for at least 3 minutes with a mixer that has a frequency of 400 - 600 rev/min until a homogeneous mixture is obtained.

Mixing Ratios

MasterTile [®] 700	Comp. A	Comp. B	
Mixture Amount	5,00 kg	0,20 kg	
Mixture Density	1,70 kg/liters		

Trowel Application

Spread the MasterTile® 700 prepared for the interline application over the application surface and fill it in the grouting holes with a plastic or hard rubber trowel. Skim the excessive material off the grouting holes with diagonal moves. (In deep grouting holes, first wait for the settling of the material and then repeat this procedure). Wait for about 15 to 30 minutes depending on the ambient and surface temperatures, clean the surface with an appropriate sponge and hot detergent containing water with circular moves





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and give the final shape to the interlines. Change sponges that become dirty during the cleaning.

Gun Application

Fill the MasterTile® 700 prepared into the grouting holes with an aperture filled gun. Skim the excessive materials off the grouting holes using a hard rubber trowel with diagonal moves. (In deep grouting holes, first wait for the settling of the material and repeat this procedure.) Wait for about 15 to 30 minutes depending on the ambient and surface temperatures, clean the surface with an appropriate sponge and hot detergent containing water with circular moves and give

the final shape to the interlines. Change sponges that become dirty during the cleaning.

Cleaning of the Ceramics

Clean the last film membrane on the ceramics 4 to 10 hours after the application with the assistance of an appropriate sponge and hot detergent water by making circular moves and wipe the surface with a final cleaning water into

which spirit should be added in a ratio of 10%. MasterTile® 700 is also suitable for being filled with a planer and being cleaned with felt.

Coverage

1.70 kg/m² for a thickness of 1 mm in the adhesion of ceramics.

Watch Points

MasterTile® 700 must be mixed with mechanical mixers, it must definitely not be mixed with a trowel.

The working and reaction times of resin based systems depend on the ambient and surface temperatures as well as the relative humidity of the air. The chemical reaction slows down in low temperatures and this elongates the pan life, the duration in which it can be covered and the working time. Since the viscosity ascends at the same time Coverage increases. High temperatures speed up the chemical reaction and the durations indicated above correspondingly get shorter. In order to have the material complete its regimentation, the

Sug				MasterTile [®] E	РО			
Ceramic Dimensions	Coverage Table for Epoxy Based Grouting (Depth: 8 mm)							
Dim 5 L	2 mm (gr/m²)	3 mm (gr/m²)	4 mm (gr/m²)	5 mm (gr/m²)	6 mm (gr/m²)	8 mm (gr/m²)	10 mm (gr/m²)	
10x10	600	900	1200	1500	1800	2400	3000	
10x20	500	700	950	1150	1400	1850	2300	
15x15	400	600	800	950	1150	1550	1900	
15x20	350	550	700	900	1100	1400	1800	
20x20	350	500	650	800	1000	1300	1650	
20x25	300	450	600	750	900	1200	1500	
20x30	300	400	550	700	800	1100	1400	
30x30	250	350	450	550	650	900	1100	





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ambient and surface temperature must not fall below the allowed minimum temperature.

Avoid MasterTile® 700 application under excessive heat or wind and/or when the ambient and/or substrate temperature is below +5 or above +25. Furthermore no applications should be made in very hot, rainy or windy weather.

In applications in cold weather, in order to take the machinability of the material to the highest level the Packagings must be made ready for

usage by conditioning in $+20^{\circ}C - +25^{\circ}C$.

Do not add water and/or new material to an MasterTile® 700 mixture which has started getting dry under any circumstances. 15 - 30 minutes after the application of the material, the cleaning must be started. The surface cleansing procedure must not be carried out by using sawdust. In order the prevent the leakage of water under the ceramics, the ceramics, installations (entrances and exits of pipes), concrete, grouting holes between the plaster, corner and edge grouting holes in between the ceramics with suitable mastics such ®

as MasterSeal[®] 474.

Cleaning of Tools

Used tools and equipment must be cleaned with water after the application. Once cured MasterTile® 700 can only be removed by mechanical means.

Standard Colors

Bahama Beige	No: 20
White	No: 21
Gray	No: 40

Packaging

5.20 kg (A+B) tin container set

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

It is dangerous to approach storage and application areas with fire. Fresh air should be circulated at storage and application area. 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.





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The information given here is true, represents our best knowledge and is based not only on laboratory work but also on field experience. However, because of numerous factors affecting results, we offer this information without guarantee and no patent liability is assumed. For additional information or questions, please contact your local representative.

BASF Central Asia

Rayimbek ave., 211A Almaty/Kazakhstan Phone +7 727 2790013

Fax +7 727 2333282 Visit us: <u>www.master-builders-solutions.basf.kz</u>





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Table of Resistance to Chemical Substances (It has been tested for 500 hours at +20°C)

Acetond	Up to 5%	170	Soda	Up to 50&	+
Acetic Acid	Up to 30%	(+)	Sodium Hypochloride	Concentrated	+
Aluminum chloride	Up to 40%	(+)	Sodium Tiosulfate	Up to 20%	+
Aluminum sulfate	Up to 1%	+	Oxalic Acid	Up to 10%	+
Formic acid	Concentrated	(+)	Paraffin Oil		+
Ammonia	Up to 10%	+	Petroleum Ether		+
Ammonium Chloride	Up to 50%	+	Phosphoric Acid	Up to 50%	(+)
Ammonium Carbonate	Up to 50%	+	Nitric Acid	Up to 10%	+
Ammonium Sulfate	Up to 40%	+	Hydrochloric Acid	Concentrated	+
Barium Chloride	Up to 10 %	+	Sulfuric Acid	Up to 70%	+
Boric Acid		+	Silicone Oil		+
Brine		+	Cooking Oil	5.	+
Buthanol	Up to 40%	+	Olive Oil		+
Calcium Chloride	Up to 20 %	+	Turpentine Oil		+
Calcium Hydroxide	Up to 50%	+	Tartaric Acid	Up to 25%	+
Calcium Nitrate	Up to 30%	+	Sitric Acid	Up to 10%	+
Ferric Sultate	Up to 50%	+	Zinc Chloride	Up to 50%	÷
Acid Acetate		+	Waters that corrupt concrete	5	+
Fuel Oil		+	Beer	5	+
Isopropyl Alcohol	Up to 20%	+	Coca Cola		÷
Potassium Carbonate	Up to 5%	+	Dibutilftalat		+
Potassium Permanganate	Saturated	+	Jet Fuel IP4		+
Salt Water	Up to 15 %	+	Glycerin		÷
Copper Sulfate	Up to 10 %	+	Hydrogen Peroxide	Up to 33%	(+)
Lactic Acid		(+)			
+ Resistant, (+) Short Term I	Resistant Not Re	esistan	I		

COVERAGE TABLES

Ceramics	Ceramics Rake	Mortar Bedding		
Dimensions	Prong Size	Thickness		
Small mosaics	4 mm	~1 - 2 mm		
Up to 15 cm x 15 cm	ชิ เททา	~2 - 3 mm		
Up to 30 cm x 30 cm	8 mm	~3 mm		
Larger than 30 cm x 30 cm	10 mm	~4 mm		





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COVERAGE TABLE

Product Name	Mixture Density	1 mm/m ² Powder Coverage	Mixture Water Amount	Ceramics Rake Prong Size and Coverages (kg/m ²)			
	(kg/liter)	(kg)	(liter)	4 mm	6 mm	8 mm	10 mm
MasterTile® PAS 101	1,70	1,70	340	3,40	5,10	3 - 0	
MasterTile® 15	1,61	1,27	6,75	-	3,80	5,07	6,34
MasterTile® 14	1,62	1,33	5,50	2	-	5,31	6,64
MasterTile® FLX 22	1,67	1,33	6,75	12	3,99	5,32	6,65
MasterTile® FLX 24	1,57	1,23	7,00	5	3,68	4,91	6,13
MasterTile® FLX 29	1,30	0,82	9,00	1,63	2,44	3,25	4,06
MasterTile [®] FLX	1,75	1,43	4,60		-	5,69	7,11
MasterTile [®] FLX 20 RP	1,90	1,59	4,00		-	6,33	7,92

The Coverages above are given theoretically for even surfaces according to the application method performed with a rake. When a skimming layer is made on the adhesion surface, the Coverages will increase by 20 - 25%.

