

MasterTile[®] NTS 570

Cement Based Special Joint Grout for Natural Stone Tiles

DESCRIPTION OF PRODUCT

MasterTile[®] NTS 570 is a cement based decorative and waterproof joint sealant material used especially in sensitive natural stone, marble and granite joints that is resistant to vibrations and lengthening and shortening caused by temperature differences.

Complies with the EN 13888-CG2WA class

CG2= Enhanced Cement based grouting, (fulfilling additional properties)

A = Highly abrasion-resistant

W= Reduced water absorption property


FIELDS OF APPLICATION

- Indoor and outdoor areas
- For in vertical and horizontal application
- For heated screeds, balconies and terraces
- For grouting natural stone tiles such as marble, travertine, granite, solnhofen stone etc
- For joint widths from 1 to 8 mm

FEATURES AND BENEFITS

- Crack-free hardening, the grout does not crack or crumble.
- Rapid setting, can be washed quickly and is walkable after approx. 6 hour, enables efficient working.
- Waterproof and frost resistant, multi-purpose use indoor and out.
- The curing process is practically independent from temperature, the best time for washing is nearly the same at low as well as high temperature.
- Does not cause staining at the edge zones with sensitive natural stone.
- High filling volume.
- Temperature resistant from -20°C to +80°C.

TECHNICAL DATA

Material Base	Powder Mixture Consisting Of Mineral Fillers, Synthetic Additives, and Special Cement.	
Compressive Strength	≥15 N/mm ²	
Flexural Strength	≥2,50 N/mm ²	WK
Water Absorbition 30 minutes 240 minutes	≥5g ≥10g	
Abrasion Resistance	≥1000 N/mm ³	
Working Temperature	+5 ⁰ C +25 ⁰ C	
Service Temperature	-20 ⁰ C +80 ⁰ C	
Maturity Time	3-5 minutes	
Working Time*	40 minutes	
Walkable After*	6 hours	

*At +23°C and 50% relative humidity. Higher temperatures reduce, lower temperatures increase the times Given.

APPLICATION PROCEDURE

Preparation of Substrate

Before filling ceramic and tile joints, the adhesive that will be used must be waited to reach necessary hardness. Just before using **MasterTile[®] NTS 570**, the surface must be cleaned by methods that won't harm ceramic and moisturized by a wet sponge.

Mixing

Amount of water stated in mixing ratio table is poured into a clean mixing container by a scale. **MasterTile[®] NTS 570** is slowly added and mixed with a 400-600 RPM mixer for 3-5 minutes until a uniform mixture is obtained. After waiting for 3-5 minutes and mixing again for 30 seconds. The mixture is ready to use.

Mixing Ratio

MasterTile[®] NTS 570	For 1 kg Powder	For 5 kg Powder
Mixture Water (thick bed)	Max. ~0,23 liter	Max. ~1,15 liter
Density of Mixture	~2,09 kg/liter	

APPLICATION METHOD

MasterTile[®] NTS 570 is spread on ceramics with rubber trowel and joints are filled. Excess materials is grazed off from the joints by diagonal movements (in deep joints, first the material has to be waited for leveling and then this process is repeated). The material is waited until it can withstand finger pressure and the entire surface is cleaned by a damp sponge. Then required water for hydration is given to the material. Material leftovers on the ceramic's surface are cleaned by a damp sponge and fugas are given their final shapes.

After the material is dried (at the latest, the next day) ceramics are burnished by dry and cleaned cotton waste.

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COVERAGE

Ceramic Dimensions	MasterTile® NTS 570					
	Coverage Table For Cement Based Joint Sealants Joint Depth. 8 mm					
	Joint Width					
	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)
15x15	300	450	600	800	950	1250
15x20	250	400	550	750	900	1150
20x30	200	300	450	550	650	900
30x30	150	250	350	450	550	700
60x60	120	180	250	300	350	475
60x120	100	150	180	225	275	350
100x100	120	180	250	300	350	475

WATCH POINTS

- **MasterTile® NTS 570** has to be mixed by mechanic mixers, it shouldn't be mixed with a trowel.
- Only apply with the rubber trowel
- The absorbency of natural stones varies by nature. Therefore only use a damp sponge for washing as otherwise the joint surface will become too rough.
- If the grout is still damp do not use a dry cloth, but only a damp sponge for cleaning as otherwise colour surface. If in doubt carry out trial grouting.
- Do not apply **MasterTile® NTS 570** at temperatures below +5°C and above +25°C or if exposed to rain or wind.
- Never add water or wet grout and /or powder to reconstitute a **MasterTile® NTS 570** mix that has already begun to set.
- Do not treat natural stones sensitive to acids, e.g. marble, with an acid cement stain removed or other acid-containing cleaners.
- Exposure to acid-containing, cement-attacking cleaning agents may cause damage to the hard grout.
- Seal movement, corner and connection joints with the elastic sealant **Masterflex® 150 N** (see technical data sheet).

CLEANING OF TOOLS

Tools and equipment should be cleaned with water after the application. Hardened **MasterTile® NTS 570** can only be removed from the surface mechanically.

STANDARD COLOR

Anthracite
Jura Beige

PACKAGING

5 kg polyethylene reinforced kraft bag

STORAGE

Must be stored in unopened original packing and in cool and dry environment protected from freezing. In short-term storing, maximum 3 pallets 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 pallets must be stowed on top of each other.

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. No permanent storage over +30°C.

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

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