

MasterTile® NTS 26

Cement Based Polymer Modified Thick Bed Natural Stone Adhesive

DESCRIPTION OF PRODUCT

MasterTile® NTS 26 is a cement based, polymer reinforced highly stable, high performance flexible adhesive used in adhesion of natural stones, granites, marbles and glass mosaics.

Complies with the TS EN 12004-C2FT class.

C2= Cement based adhesive with improved additional properties

F= Rapid hardening cement based adhesive

T= Reduced slipping property

FIELDS OF APPLICATION

- For indoor and outdoor use,
- For walls and floors,
- To lay natural stone tiles,
- To level uneven substrates prior to laying tiles,
- On stairs and dados of houses, in living areas, on electric underfloor heating systems, heated screeds, balconies and terraces, in halls, rooms and corridors of industrial buildings, markets, institutional, service and administration buildings.

ADVANTAGES

- Plastic, workable bedding mortar, the mediumbed mortar is spread with only an appropriate notched trowel. (medium-bed trowel)
- Flexible, compensates fluctuations in temperature and expansions in the substrate.


- Good adhesion without pre-wetting or priming to concrete, cement screed and render.
- Low shrinkage, no tensions caused by shrinkage between **MasterTile® NTS 26** and the natural stone tile even with large mortar bed thicknesses. (up to 4 cm.)
- Resistant to frost and permanent exposure to wetness, multi-purpose use indoors and out, on walls and floors.
- Quick setting, reduces penetration of moisture into the material during the installation thus preventing efflorescence.
- Rapid curing, walkable and grutable after approx. 6 hours, able to bear weight after approx. 1 day.
- No staining from the adhesive bed with white marble if the installation is carried out in the combined method (buttering-floating).

APPLICATION PROCEDURE

Preparation of Substrate

Application surface has to be strong, dry, bearing, dustless, clean and also in balance. Surface must be cleaned off kind of oil, grease, rust and paraffin traces that can weaken adherence and no loose particles must be present. Disordered surface with 5 to 20 mm depth must be repaired with **MasterEmaco® S 488** repair mortars two days before the application. If the application surface is over +25°C, then it must be moisturized. Cement plasters must not leave more than 4% moisture behind and anhydrite plasters must not leave more than 0.5% moisture behind.

TECHNICAL DATA

Material Base	Powder Mixture Consisting of High Tech Fillers, Synthetic Additives and Special Cement	
Color	White-Gray	
Bonding Strength	≥1,00 N/mm ² (28 days)	
Joint Sealant Time	~5 to 10 hours	
Application Thickness	Min. 5 mm Max. 40 mm	
Application Ground Temperature	+5°C +25°C	
Service Temperature	-30°C +80°C	
Maturity Time	3-5 minutes	
Usage Period	60 minutes	
Open Waiting Time	15 minutes	
Sliding (mm)	None	
Wetability	Min. 90%	
Walkable After	6 hours	
Able to Bear Weight After	24 hours	

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

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Gypsum Based Surfaces

MasterTile® P 300 RC is applied on highly absorbent gypsum-plasterboard, gypsumplaster, gas concrete, lime plaster and chipboard surfaces. After 5 minutes of **MasterTile® P 300 RC** application, adhesion process can be started.

Wooden Chip Based Surfaces (Osb and Chipboards)

Wooden chipboards must contain maximum 10% moisture. Wooden chipboard applied on floors (V100) must be 25 mm minimum and the ones applied on walls 19 mm minimum. Plates have to be screwed to the surface with 30 cm spaces between them. Edge joints have to be at least 8 mm wide. Joints of the plates grooved and filled with **MasterSeal® NP 474**. In dry environments, wooden plates have to be primed by **MasterTile® P 303**. If the plates are in humid environments (exteriors), then **MasterTile® WP 666** has to be applied in two layers and reinforced with netting.

Mixing

Necessary amount of water is poured into a clean mixing container with the help of a scale. **MasterTile® NTS 26** is slowly added to the water and mixed with a 400-600 RPM mixer for 3-5 minutes until a homogenous and unumpy mixture is obtained. After resting it for approximately 3-5 minutes and mixing again for 30 seconds, the material is ready to use.

In order to avoid gaps during tiling, always apply one layer mortar under stones

Applicability Test of Adhesive (Period of Open Waiting)

Fingers are pressed on the adhesive applied surface. If the adhesive smeared on the fingers, application of ceramics or tiles is continued. If the fingers are clean, it means the application time of adhesive has passed. In this case, the adhesive is scraped off the surface and new adhesive is applied.

Mixing Ratio

MasterTile® NTS 26	For 1 kg Powder	For 25 kg Bag
Mixture Water	~0,21 liter	~5,25 liter
Density of Mixture	~1,51 kg/liter	

Recommended Grout Width

Up to 5 cm x 5 cm	3 mm
Up to 15 cm x 15 cm	4 mm
Over 15 cm x 15 cm	6-8 mm

APPLICATION METHOD

1 mm **MasterTile® NTS 26** is applied on application surface with the flat side of trowel. In an area that can be covered in 15 minutes, period of open waiting,

MasterTile® NTS 26 is applied by serrated side of trowel in single direction in uniform thickness. In the adhesion of ceramics or granites with different thicknesses, to repair the disorder on application surface, it is suggested to apply 1mm mortar under each ceramic or granite. When applying ceramics or granites to the place of application, pavements are floated on mortar to enable full contact of adhesion mortar. Suggested joint gap according to applied ceramic or granite dimension is left and the application is finished.

To fill the left joint gaps, **Master Builders Solutions** joint grouts must be used. Approximately after 6 hours joints can be applied.

Natural stones affected by discoloration can be grouted by **MasterTile® NTS 570**.

Suggested Notched Trowel Dimensions

Ceramic Dimensions	Ceramic Notched Trowel Dimensions	Mortar Bedding Thickness
Up to 15 cm x 15 cm	6 mm	~2-3 mm
Up to 30 cm x 30 cm	8 mm	~3 mm
Over 30 cm x 30 cm	10 mm	~4 mm

Grouting

MasterTile® NTS 570: For 1-8 mm joint width

MasterTile® JF 560: For 3-20 mm joint width

Special Cases

Grouting by **MasterTile® FLX 555** for polished natural stones.

Elastic Joints

Corner joints (floor/wall, wall/wall, wall/balcony or bottom surface of stairs) and connection joints (fixture/tile, wood/tile) must be filled by elastic sealant **Masterflex® 150 N**.

- **MasterTile® NTS 26** has to be mixed by mechanic mixers, it shouldn't be mixed with a trowel.
- Open waiting time is reduced in absorbent surfaces (suggestion: prime with **MasterTile® P 300 RC**)
- In exterior surface applications, the applied surface must be protected from excessive sunlight, wind, freezing and rain for the first 24 hours.
- When layer thickness is high, amount of gauge water may be reduced, but this time period of open waiting decreases.
- When tiling stones that set by hydration and did not reach to defined minimum wetness and/or residuary moisture level, please get technical assistance from **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.**
- Under no circumstances, water and powder must be added to **MasterTile® NTS 26** mixture which has already begun to set. Apply **MasterTile® NTS 26** mixture approximately in 60 minutes (+20°C).

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COVERAGE

1.25 kg/m² for a thickness of 1 mm adhesive

MasterTile [®] NTS 26	Ceramic Notched Trowel Dimensions and Coverage (kg/m ²)		
	10 mm (rectangle)	8/18 mm (arch)	10/13 mm (arch)
25 kg	3,60	4,20	5,70

WATCH POINTS

- Adhesive bed should be thick enough and mixture ratios should be arranged to prevent any gaps between the stones. Size of the serrated trowel varies depending on the shape of the stones and irregularities of the surface (a trial is suggested before the application).
- When natural stones are being grouted, technical data sheet of joint grouts and/or joint sealants have to be followed.
- Very absorbent, thin natural stones may show a slight deepening of the colour after the installation which, however, will recede without leaving any residues after **MasterTile[®] NTS 26** has cured.
- Reasons for discolouring on natural stones may be: Existence of coloured organic and/or inorganic substances in the natural stone which are partly water-soluble.

Organic: Fossil substances.

Inorganic: Iron and calcium combinations.

Due to this fact it is impossible to predict if discolouring on the surface will or will not occur after the tiles have been installed. **MasterTile[®] NTS 26** in combination with dry substrates minimizes the transportation of water to the surface of the natural stone and thus the described risk of discolouring. The risk of discolouring or even efflorescence can be totally excluded only by using the water-free, 2-part polyurethane based **Master Builders Solutions** tile adhesive. Apart from the existing typical colouring substances there are some other reasons which can cause discolourings on natural stones: High polymeric adhesive residues on substrates to be covered. Use of colouring plasticizers for the production of screeds. Damp cardboard covers for the protection of natural stone surfaces, cigarette butt etc.

CLEANING OF TOOLS

Tools and equipment should be cleaned with water after the application. Hardened **MasterTile[®] NTS 26** can only be removed from the surface mechanically.

PACKAGING

25 kg polyethylene reinforced kraft bags

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 not be stowed on top of each other.

SHELF LIFE

9 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

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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CONTACT INFORMATION

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MasterTile® NTS 26 Technical Data Sheet -Revision
Date: 12/2020

	
Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti. Adres: Barbaros Mah. Begonya Sok. Nidakule Kuzey Ataşehir, C Kapısı No:3 E/5, 34746 Ataşehir İstanbul	
20 DOP NO: 03.12004.005	
TS EN 12004-1 MASTERTILE NTS 26 Improved fast setting cementitious adhesive with reduced slip (Hızlı Sertleşen, Kayma Özelliği Azaltılmış Geliştirilmiş Çimentolu Yapıştırıcı) C2FT	
Yangına Karşı Tepki (Reaction To Fire)	A2
Erken Çekme Yapışma Kuvveti (Early tensile adhesion strength(after not more than 6 h))	≥ 0,5 N /mm ²
Başlangıç Çekme Yapışma Kuvveti (Initial tensile adhesion strength)	≥ 1,0 N /mm ²
Isı ile yaşlandırıldıktan sonra çekme yapışma kuvveti (Tensile adhesion strength after heat ageing)	≥ 1,0 N /mm ²
Suya daldırıldıktan sonra çekme yapışma kuvveti (Tensile adhesion strength after water contact)	≥ 1,0 N /mm ²
Donma-çözünme çevriminden sonra çekme yapışma kuvveti (Tensile adhesion strength after freeze-thaw cycles)	≥ 1,0 N /mm ²
Kayma (Slip)	≤0,5 mm