



The Chemical Company

MasterTile® NTS 26 (Formerly known as Karrantment®)

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.

Consistent 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 medium-bed 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,

Technical Data

Material Base	Powder Mixture Consisting of High Tech Fillers, Synthetic Additives and Special Cement	
Color	White-Gray	WK
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	-40°C +80°C	
Maturity Time	3 - 5 minutes	
Usage Period	2 hours	
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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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 adhydrate plasters must not leave more than 0.5% moisture behind.

Gypsum Based Surfaces

MasterTile® P 300 is applied on highly absorbent gypsum- plasterboard, gypsum-plaster, gas concrete, lime plaster and chipboard surfaces after diluting 1/1 ratio in the first layer and concentrated in the second layer. After 24 hours of **MasterTile® P 300** 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. In dry 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 unlumpy mixture is obtained. After resting it for approximately 3-5 minutes and mixing again for 30 seconds, the material is ready to use.

Mixing Ratios

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

Application

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



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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, **BASF Yapı Kimyasalları San. A.Ş.** joint sealants must be used. Approximately after 6 hours joints can be filling. Natural stones not affected by discoloration can be grouted by **MasterTile® FLX 555**.

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**.

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

Also **MasterTile® NTS 26** application should not be made in very hot, rainy or windy weathers.

- Under no circumstances, water and new material must be added to drying **MasterTile® NTS 26** mixture.
- Open waiting time is reduced in absorbent surfaces (suggestion: primer with 1:1 diluted **MasterTile® P 300**)
- 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 **BASF Yapı Kimyasalları San. A.Ş.**
- 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.

Watch Points

- **MasterTile® NTS 26** has to be mixed by mechanic mixers, it shouldn't be mixed with a trowel.
- If environmental temperature is below +5°C or over +25°C in **MasterTile® NTS 26** application, then suitable temperatures must be waited for minutes after mixing (at +20°C).
- Adhesive bed should be thick enough and



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Coverage

MasterTile® NTS 26	Density of Mixture (kg/liter)	1 mm/m ² Powder Coverage (kg)	Mixture Water Amount (liter)	Ceramic Notched Trowel Dimensions and Coverage (kg/m ²)		
				10 mm (rectangle)	8/18 mm (arch)	10/13 mm (arch)
25 kg	1,51	1,25	5,25	3,60	4,20	5,70

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.
- Clean tools with water immediately after use, once the product has hardened it can only be removed by mechanical means.
- 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 to totally excluded only by using the water-free, 2-part polyurethane based tile adhesive

PCI Collastic. 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.

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.

Equipment Cleaning

Clean tools with immediately after use; once the product is hard it can only be removed by mechanical means.



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Packaging

In 25 kg polyethylene reinforced kraft bags.

Storage

Must be stored in unopened original packing and in cool and dry environment protected from freezing. In shortterm storing, maximum 3 palettes 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 palettes must not be stowed o top of each other.

Shelf Life

6 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

Work cloth, protective gloves, goggles and masks concordant with Work and Worker Health rules must be used during the application. Due to irritant effects of the non-cured metarial.

Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge **BASF Yapı Kimyasalları Sanayi A.Ş.** is only responsible for the quality of the product. **BASF Yapı Kimyasalları Sanayi A.Ş.** 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 (08/2013).



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BASF Yapı Kimyasalları San. A.Ş. GOSB İnsanlarda Caddesi 1000. Sokak No-1 Gebze / Kocaeli TÜRKİYE	
EN 12004	
Improved Fast Setting Cementitious Adhesive CZFT	
Reaction to Fire	Class A1/A1fl
Early Tensile Adhesion Strength	≥ 0,5 N/mm ²
Initial Tensile Adhesion Strength	≥ 1,0 N/mm ²
Tensile Adhesion Strength After Heat Ageing	≥ 1,0 N/mm ²
Tensile Adhesion Strength After Water Immersion	≥ 1,0 N/mm ²
Tensile Adhesion Strength After Freeze/thaw Cycle	≥ 1,0 N/mm ²