

MasterTile[®] NTS 26 Rapid

Medium-bed mortar for ceramic and critical natural stone coverings

DESCRIPTION

MasterTile NTS 26 Rapid is a cement based, polymer modified, highly stable, high performance, flexible adhesive used in adhesion of natural stones, granites, marbles and glass mosaics, and can also be used to bond ceramics.

TYPICAL APPLICATIONS

- For indoor and outdoor use.
- For walls and floors.
- To lay natural stone tiles.
- To level uneven substrates prior to laying tiles.
- On stairs of villas, hotels, in living areas, on heated screeds, balconies and terraces, in halls, rooms and corridors of industrial buildings, retail outlets, markets, institutional, service and administration buildings and airports.
- Can also be used for ceramics

ADVANTAGES

- Plastic, workable bedding mortar, the medium-bed mortar is spread with only a notched trowel (medium-bed trowel).
- Flexible, compensates fluctuations in temperature and expansion in the substrate.
- Good adhesion without pre-wetting or priming on concrete, sand-cement screed, and render.
- Low shrinkage, no tensions caused by shrinkage between **MasterTile NTS 26 Rapid** and the natural stone tile even with large mortar bed thicknesses (up to 4cm) vertical or horizontal. However, the non-sag characteristic is for vertical installation @ at approximately 5mm bed thickness.
- 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 groutable 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 buttering-floating method.

- **Conforms to EN 12004-C2FT class**
 C2 = Cement based adhesive with improved additional properties
 F = Rapid hardening cement based adhesive
 T = Reduced slipping property

TECHNICAL DATA - MATERIAL

| | |
|---------------|---|
| Material base | cement mortar mix with additives. Does not contain asbestos or other mineral fibres. No injurious silica dust during the application. |
| Component | 1 part |
| Colour | white and grey |
| Shelf life | approx. 6 months when stored in dry conditions |
| Packaging | 25kg PE-lined heavy duty paper bag |
| Storage | cool and protected from frost, no permanent storage over +40°C |

APPLICATION

| | | |
|---|--|-----------------------------|
| Consumption and coverage | approx. 1.3kg of dry mortar per m ² and mm adhesive bed thickness | |
| Required notch size | consumption per m ² approx | 25kg sufficient for approx. |
| - 10mm (rectangular) | 3.6kg | 6.9m ² |
| - 8/18mm (flowable adhesive) | 4.2kg | 6.0m ² |
| - 13/20mm (flowable adhesive) | 5.7kg | 4.4m ² |
| Gauging water for - 1kg powder - 25kg bag | approx. 210 ml approx. 5.25 L | |
| Thickness of adhesive bed | 5 to 40 mm | |
| Working temperature | +5°C to +40°C (substrate temperature) | |
| Slake time | approx. 3 min | |
| Open time* | approx. 25 min | |
| Working time* | approx. 30 min | |
| Curing times* - walkable after - groutable after - able to bear weight after | approx. 6 h approx. 6 h approx. 24 h | |
| Temperature resistance | -20°C to +80°C | |

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

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APPLICATION GUIDELINES

- Fill gauging water (see “Technical Data/Application”) into a clean mixing container. Add **MasterTile NTS 26 Rapid** and mix with a suitable paddle (e.g. available from Collomix) attached to an electric drill until a plastic, lumpfree mortar is achieved.
- Allow a slake time of approx. 3 minutes and re-mix briefly.

PREPARATION OF SUBSTRATE

Minimum age of the substrate:

- Cementitious screed : 28 days
- Concrete : 3 months

The substrate must be dry, free of oil and dust and able to bear weight. Prime very absorbent cementitious substrates with **MasterTile P 302**, diluted 1:1 with water. Prime ground anhydrite and/or gypsum-based floated screeds and poured asphalt screeds indoors with undiluted **MasterTile P 302**. Allow primer to dry. Cementitious screeds must not have a residual moisture content of more than 4%, anhydrite screeds not more than 0.5% (measured with a CM meter).

INSTALLATION OF NATURAL STONE TILES

- *Medium-bed method*
Apply **MasterTile NTS 26 Rapid** onto the substrate section by section to achieve a scratch coat. Spread as much mortar as can be covered with natural stones within the open time using a medium-bed trowel or any other suitable notched trowel which enables almost full bedding. Check the open time with your fingertip. Position tiles with a twist and slide motion to obtain almost full bedding.
- *Bedding method*
MasterTile NTS 26 Rapid can also be used to lay large-size natural stones in vertical positions (e.g. stair risers, natural stone dados). Apply **MasterTile NTS 26 Rapid** to the required thickness with a medium-bed or flat trowel both to the substrate and the reverse side of the tile. Press down and align the natural stone tile and wedge if necessary. Apply only as much mortar as can be covered with tiles within the open time.

Check the open time with your fingertip. The application of **MasterTile NTS 26 Rapid** to the reverse side of the tile prevents staining from the adhesive bed and enables an almost void free adhesive bed.

Grouting

- *Joint width from 1 to 8 mm*
Use Master Builders Solutions natural stone non-stain grout
- *Elastic joints*
Seal corner joints (floor/wall, wall/wall, wall/soffit) and connection joints (fixtures/tiling, wood/tiling) with the elastic, non-stain sealant.



MasterTile NTS 26 Rapid is a workable medium-bed mortar easy to apply.



For void-free laying always apply a layer of mortar to the reverse side of the tile.

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NOTE

- Do not apply **MasterTile NTS 26 Rapid** at substrate temperatures below +5°C and above +40°C or under exposure to extreme heat and strong winds.
- The open time reduces with absorbent substrates (recommendation: priming with **MasterTile P 302**, diluted 1:1 with water).
- In case of high layer thicknesses the amount of gauging water for **MasterTile NTS 26 Rapid** can be reduced, however, resulting in decreasing the open time.
- When installing window sills in the dot and dab method it is necessary to apply a fully-covering scratch coat with **MasterTile NTS 26 Rapid** to the reverse side of the natural stone tile.
- When laying natural stones on substrates which set through hydration and which have not yet reached the specified minimum age and/or the specified residual moisture level please contact Master Builders Solutions Technical Service.
- When laying natural stones which show an extreme concave arching when absorbing water (e.g. slate) please contact Master Builders Solutions Technical Service.
- Never add water or dry powder to a **MasterTile NTS 26 Rapid** mix which has already begun to set. Apply **MasterTile NTS 26 Rapid** within approx. 60 minutes (at +40°C) after mixing.
- For a void-free bedding of the tiles it is required that the adhesive and that the appropriate mixing ratio is observed. The size of the notched trowel depends on the tile format and the irregularities of the substrate (trial bedding).

- The technical data sheets for the respective grouts and/or sealants should be followed when grouting natural stones.
- Clean tools and mixing containers with water immediately after use; once the product has cured it can only be removed by mechanical means.

STORAGE AND SHELF LIFE

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

The shelf life is 12 months when stored as above.

HEALTH AND SAFETY

MasterTile NTS 26 Rapid contains cement. Contact with moisture or gauging water sets off an alkaline reaction which may cause skin irritation and/or caustic burns to mucous membranes (e.g. eyes). Risk of serious damage to eyes, therefore avoid contact with eyes and prolonged contact with skin. In case of contact with eyes immediately rinse with water and consult a doctor. In case of contact with skin immediately change contaminated clothing and wash skin with plenty of soap and water. Wear suitable protective gloves (e.g. cotton gloves soaked in nitrile). If ingested seek prompt medical attention and show packaging or this technical data sheet. Keep out of reach of children.

Low in chromates according to TRGS 613.

For further information refer to the Material Safety Data Sheet.

* Properties listed are based on laboratory controlled tests.

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