

MASTERTILE[®] 11

Polymer modified tile adhesive for non-vitrified and vitrified tiles

Mastertile 11 Grey Mastertile 11 White

Areas of application

- For indoor and outdoor use.
- For walls and floors.
- For laying non-vitrified and vitrified tiles in the thin bed method.
- For laying ceramic tiles in areas exposed to permanent wetness such as swimming pools (indoors and out), health spas, potable water reservoirs as well as in wet areas such as showers, toilets, bathrooms and cold storage rooms.
- For laying ceramic on the bonded waterproofing PCI Lastogum or Thoroseal FX100. Addition of Mastertile 200 or PCI Lastoflex might be necessary, please contact BASF technical service.
- On cement screeds, ground anhydrite and/or gypsum based floated screeds, renders, concrete, heated screeds, plaster boards, gypsum fibre boards, plaster slabs and plaster.



Reliable laying of tiles in the thin-bed method with Mastertile 11

Features and benefits

- Good workability, therefore easy to apply.
- Excellent non-sag properties, no need for spacers. The bedded tiles have an immediate adhesion, but can still be adjusted to correct position.
- Increased flexibility by adding Mastertile 200 or PCI Lastoflex, therefore also suitable for areas subject to variations in temperature.
- Resistant to frost and permanent water, multipurpose use indoors and out, even in swimming pools and cold storage rooms.
- MASTERTILE 11 meets the classification requirements C1TE according to EN 12004.

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Technical data

Material

Material base	Powder mixture with elastifying polymers. Does not contain any asbestos or other mineral fibres. No injurious silica dust during the application.
Labelling for - Regulation for hazardous goods on roads - Regulation for hazardous materials <i>For further information refer to Health & Safety</i>	non hazardous irritant, contains cement
Packaging	25 kg PE lined heavy-duty paper bag
Shelf life	min. 6 months
Storage	in dry conditions, no permanent storage over +40°C

Application

Consumption Required notch size - 4 mm - 6 mm - 8 mm - 10 mm Solid bed	Amount of powder / m ² approx 1.6 kg/ m ² approx 2.2 kg/ m ² approx 2.7 kg/ m ² approx 3.4 kg/ m ² approx 1.4 kg / m ² and mm thickness
Coverage* Required notch size - 4 mm - 6 mm - 8 mm - 10 mm	25 kg Mastertile 11 is sufficient for approx. 15.6 m ² 11.4 m ² 9.3 m ² 7.4 m ²
Thickness of adhesive bed	up to max. 10mm
Working temperature	+5°C to +40°C
Gauging water - 1 kg powder - 25 kg bag	approx. 0.24 – 0.25 litre approx. 6 – 6.25 litre
Slake time	approx. 3 minutes
Working time**	approx. 1 hour
Open time**	approx. 30 minutes
Curing times** (on slightly absorbent substrates) - walkable - groutable after - able to bear weight after	approx. 24 hours
	approx. 24 hours
	approx. 7 days
Temperature resistance	-30°C to +80°C

* The consumption rates of dry powder are based on lab trials and might vary subject to variation of subfloor level and surface regularity.

The reverse profile of the used ceramic and the surface structure of the substrate to be covered are also important factors, besides the tile size, for the consumption of mortar. The indications refer to the installation of slightly profiled non vitrified or vitrified tiles on render or cement screed.

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

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Preparation of substrate

Minimum age of the substrate:

- PCI Novoment M3 plus – 3 days
- Cement screed - 28 days

Note: The screed drying time is subject to the screed thickness and site conditions. For applications before 28d please contact BASF technical service department.

- Concrete - 6 months

The substrate must be sound, clean and able to bear weight. Oil stains, bond-inhibiting surfaces and other residues must be thoroughly removed. The substrate must be plumb and flush in accordance with BS 5385. Plaster substrates must be approved by the plaster manufacturer for fixing ceramic tiles and must be suitable for the intended area of use.

Level substrate irregularities on walls with the leveling compound Emaco or with the repair mortar Emaco. Level concrete floors with PCI Novoment M3 plus or the screed leveller Mastertop 528.

Prime very absorbent cement based substrates and aerated concrete with PCI Primer Gisogrund, diluted 1:1 with water, anhydrite and/or gypsum-based floated screeds as well as gypsum-based substrates inside of buildings with undiluted PCI Primer Gisogrund. Allow the primer to dry.

Newly applied cement screeds must not have a residual moisture content over 4%, anhydrite and/or gypsum based screeds not more than 0.5% (measured with a CM meter).

Application procedure

Mixing of bedding mortar

- Place gauging water (see table) in a clean mixing vessel. Add powder and mix the mortar with a suitable paddle (e.g. from Collomix) attached to an electric drill until a plastic, lump-free consistency is achieved.

- Allow a slake time of approx. 3 minutes for Mastertile 11, and then remix briefly.

Laying tiles

- Apply a thin scratch coat to the substrate with the smooth edge of the trowel.
- Comb mortar onto the fresh scratch coat with a notched trowel. Apply the adhesive bed in one direction, if possible. Apply only as much mortar as can be covered with tiles during the open time. Check the open time by touching the mortar with your finger tip.
- Place tiles in the adhesive bed with a twist and slide motion and adjust to correct position.

Grouting

- *Joint width from 1 to 6 mm*
Mastertile 530 LM
- *Elastic joints*
The standards issued by the Central Association of the German Building Industry are valid for the layout of joints. Movement joints, corner joints (floor/wall) and connection joints (fixtures/tiles, wood/tiles) should be sealed with the elastic joint sealant PCI Silcofug E or PCI Silcoferm S.

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Please note

- Do not apply at temperatures below +5°C and above +40°C and under extreme hot and windy conditions.
- Mixed Mastertile 11 can be applied for approx. 1 hour. Higher temperatures reduce, lower temperatures increase the times given.
- Substrates made of precast concrete elements and/or in-situ concrete must be at least 3 months old (at +23°C and 50% relative humidity).
- The open time is reduced in case of absorbent substrates (recommendation: priming with PCI Primer Gisogrund).
- Never add water or dry powder to reconstitute a Mastertile 11 mix which has already begun to set.
- Mastertile 11 can be used to lay fully vitrified tiles indoors in areas **not** commercially used or exposed to vehicular traffic. In all other areas the adhesive must be blended with PCI Lastoflex and/or the universal flowable adhesive PCI Nanoflott should be used alternatively.
- Application works in swimming pools, drinking water reservoirs, outdoors and for floor areas subject to high mechanical loads should be carried out in the combined method (buttering-floating). Apply a thin layer of adhesive to the reverse side of the tile and the substrate and press down ceramic. This method is also suitable for different tile thicknesses.
- Tools and ceramic coverings should be washed with water immediately after use;

once the product has cured it can only be removed by mechanical means.

- Store in dry conditions, no permanent storage over +35°C. Open bags must be closed immediately after use.

Health and Safety

Mastertile 11 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 plenty of water and consult a doctor. In case of contact with skin remove contaminated clothing immediately and wash skin with plenty of soap and water. Wear suitable protective gloves (e.g. cotton gloves soaked in nitrile) and safety goggles/face protection. If ingested seek prompt medical attention and show packaging or this technical data sheet. Keep out of reach of children.

For further information refer to the Material Safety Data Sheet.

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