

Performance Adhesive

Areas of Application:

BOTAMENT® M 18 is used for installing ceramic, porcelain, homogeneous, stoneware, klinker or terracotta tiles. Its outstanding properties also allow the installation of big-format floor tiles.

It is designed for highly-stressed areas such as balconies, terraces, kitchens in hotels and hospitals, laboratories, showrooms, automotive service centres, etc.

Properties:

BOTAMENT® M 18 is a slightly flexible cementitious adhesive with high tensile adhesion strength and excellent workability. The material contains dry polymers in powder form and the usage of additional latex is unnecessary.

BOTAMENT® M 18 is certified as class C2 TE adhesive according to EN 12004-1: 2017.

Suitable Substrates:

BOTAMENT® M 18 adheres to almost all kinds of mineral substrates such as concrete, screed, render, brickwork, precast concrete panels, composite solid panels, light-weight blocks, etc.

Substrate Requirement:

The substrate must be clean, solid, stable, free of any loose particles, grease, oil, paint, cement lime, tar, bitumen or release agent which might affect the adhesion.

Substrate Preparation:

For all absorbent substrates (cement render, screed, gypsum plaster, anhydrite screeds, etc.), the usage of deep penetrating primer BOTAMENT® D 11 is recommended to achieve best adhesion. The primer reduces the absorbency and reinforces the substrate.

Mixing:

Mix BOTAMENT® M 18 with only clean, potable water. For one 25 kg bag approx. 6.3 - 6.7 litres of water are required. Add gradually the powder to the water while mixing to achieve a lump-free mix. Use a slow speed drill mixer (400 – 500 rpm) and mix for a minimum of 3 minutes to produce a homogeneous consistency. After a maturity time of 5 minutes, mix the material again for 1 minute to attain longer workability. Material which has set must not be re-tempered by mixing in additional water as this will affect the final properties.

Application:

The pot life is approx. 90 minutes. Apply a thin contact layer onto the substrate with the flat side of a trowel. Right after this use the notched side of the trowel to spread the right amount of adhesive evenly.

For bigger-sized tiles use a trowel with bigger notches (min. 8 mm) to ensure sufficient amount and even distribution of the adhesive underneath the tiles.

The buttering-floating method (combined application of adhesive onto the tiles as well as onto the substrate) to create a cavity-free adhesive layer is recommended for external areas, wet areas or large-format tiles.

After spreading the adhesive, the tiles should be placed immediately. Within 15 minutes the tile can be moved slightly to its final position. If a surface skin has formed, re-troweled the adhesive to produce a fresh surface. Avoid sprinkling water to moisten the adhesive.

BOTAMENT® M 18

- C2 TE according to EN 12004-1
- no latex additive required
- excellent adhesion
- excellent workability
- thixotropic consistency
- slightly flexible
- for interior or exterior use
- for walls or floors
- for almost every kind of tiles

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M 18

Material base:

Cementitious composite with mineral aggregates and dry powder dispersants

Colour:

Grey

Solvents:

None

pH-Value:

11

Mixing ratio:

25 kg BOTAMENT® M 18:
~ 6.3 - 6.7 lit of water

Wet Density:

~1.65 kg/lit

Pot life:

~ 90 mins at 25°C

Open time (EN 12004-2):

~ 30 mins at 25°C

Foot-trafficable after:

24 hours

Grouting of joints after:

24 hours

Full mechanical load after:

7 days

Consumption:

6mm notched trowel: ~ 3.6 kg/m²
8mm notched trowel: ~ 4.8 kg/m²
10mm notched trowel: ~ 6.0 kg/m²

Maximum layer thickness:

8 mm in one layer

Pull-off strength (EN 12004-2):

Standard condition: 1.2 – 1.3 N/mm²
Heat aging: 1.0 – 1.1 N/mm²
Water immersion: 1.2 – 1.3 N/mm²

Vertical Slip (EN 12004-2):

0.1 mm

Application conditions:

+8°C to +40°C

Cleaning:

With water while material is still wet, hardened material can only be mechanically removed.

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General Remarks:

Protect BOTAMENT® M 18 against adverse weather conditions until the material is completely set.

Avoid heavy mechanical stress during curing as this will affect the final bonding strength.

The datasheet of products used in conjunction with BOTAMENT® M 18 must be followed.

All technical data stated in this datasheet are based on test under laboratory conditions. Actual achieved data may vary due to different ambient conditions at job sites.

The Material Safety Data Sheet is available on request.

Setting time:

Tiles installed with BOTAMENT® M 18 can be walked on after approx. 24 hours. The grouting of the tile joints can be carried out after approx. 24 hours.

The drying times are approximate and will be affected by ambient conditions. High temperature and low humidity quicken the drying process whereas low temperature and high humidity retard the drying process.

Consumption:

The consumption varies with the application method as well as with the particular kind of notched trowel.

Packaging:

25 kg paper bag

Storage:

Keep cool and dry.

Shelf life is **9 months** if kept in original, unopened and undamaged sealed bags.

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