



BE SURE. BUILD SURE.

M 18 (Previously known as Botament M 18)

Performance Adhesive

Product Properties

- C2 TE according to EN 12004-1
- no latex additive required M 18
- excellent adhesion and workability
- thixotropic consistency and slightly flexible
- for interior or exterior use, and for walls or floors
- for almost every kind of tiles

Area of Application

- 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

Application

Properties:

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.

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

Suitable Substrates:

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 D 11 is recommended to achieve best adhesion. The primer reduces the absorbency and reinforces the substrate.

Mixing:

Mix 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.

Setting time:

Tiles installed with 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.



BE SURE. BUILD SURE.

Application

General Remarks:

Protect 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 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.

Consumption:

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

Material base:

Cementitious composite with minerals aggregates and dry powder dispersants

Cleaning:

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

Technical Data for M 18

Characteristic	Unit	Value	Comments
Colour			Grey
Solvent			None
pH-Value		11	
Mixing Ratio	liter	~ 6.3 - 6.7 : 25kg	Water
Wet density	kg/lit	~1.65	
Pot Life	minutes	~90	at 25°C
Open time (EN 12004-2):	minutes	~30	at 25°C
Foot-trafficable after	hours	24	
Grouting of joints after	hours	24	
Full mechanical load after	days	7	
Consumption	mm: kg/m ²	6 :3.6 8: 4.8 10: 6.0	Notched trowel
Maximum layer thickness	mm	8	In one layer
Pull of Strength (BS EN 12004-2)	N/mm ²	1.2 – 1.3 1.0 – 1.1 1.2 – 1.3	Standard condition Heat aging Water immersion
Vertical Slip	mm	0.1	according to BS EN 12004-2
Application conditions	+°C	8-40	

Product Characteristics for M 18

Packaging	25 kg bag
Storage	Keep cold and dry.
Shelf Life	9 months if kept in original, unopened and undamaged sealed bags.

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 02/22. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.