

## BOTAMENT® M 21 HP Speed



Premium Flexible Rapid Adhesive thin-bed, medium-bed and pourable bed C2 FTE S1

BOTAMENT® M 21 HP Speed is a highly flexible, fibre-reinforced light-weight adhesive for the fitting of almost all ceramic wall and floor coverings and natural stones which are non-sensitive against discolouration in interior and exterior areas. Due to the airflow Technology the thin-bed, medium-bed and pourable bed adhesive is particularly easy to handle.

### Properties

- ❖ Very productive thin-bed, medium-bed and pourable bed adhesive
- ❖ Highly flexible- outmatches the S1 requirements
- ❖ For heated areas, balconies and terraces
- ❖ Particularly stable according to EN 12004
- ❖ For levelling works up to 10 mm in one step
- ❖ Easy and smooth to handle
- ❖ Long working time
- ❖ Crystalline water bonding

### Application Areas

#### Bonding of

- ❖ vitreous stoneware and porcelain stoneware
- ❖ non-vitreous stoneware
- ❖ split tiles
- ❖ floor clinker slabs and clinker tiles
- ❖ hand-made tiles
- ❖ small and medium-sized mosaics and glass mosaics
- ❖ natural stones which are non-sensitive against discolouration
- ❖ insulation and lightweight building boards

Very smooth boards (e.g. rigid foam slabs) must be roughened up prior to bonding.

### Suitable substrates

- ❖ concrete, lightweight concrete and porous concrete
- ❖ joint full brickwork
- ❖ plasters of the mortar categories CS II, CS III and CS IV in accordance with EN 998 (compressive strength  $\geq 1.5 \text{ N/mm}^2$ ) and gypsum plaster in accordance with EN 13279 (compressive strength  $\geq 2.0 \text{ N/mm}^2$ )
- ❖ BOTAMENT® building boards
- ❖ old tiling
- ❖ gypsum walls, gypsum plaster boards and gypsum fibreboards
- ❖ cement screeds and calcium sulphate screeds
- ❖ sanded mastic asphalt screeds (IC 10)

Application on porous concrete and mastic asphalt screeds is only permissible in interior areas.

### Technical data

material basis	cement combination with mineral light-weight fillers and additives
packaging	25 kg bag
storage	cool and dry $\leq 9$ months in its original sealed container
density	$\sim 1.50 \text{ kg/dm}^3$
temperature resistance	$-20 \text{ }^\circ\text{C}$ up to $+80 \text{ }^\circ\text{C}$
optimal water-solid ratio	$\sim 28 \%$ as thin-bed adhesive $\sim 25 \%$ as mid-bed adhesive $\sim 32 \%$ as pourable bed adhesive
mixing ratio	
thin bed	$\sim 7.00 \text{ l of water / 25 kg}$
mid-bed	$\sim 6.25 \text{ l of water / 25 kg}$
pourable bed	$\sim 8.00 \text{ l of water / 25 kg}$
maturing time	2 minutes
open time	$\sim 30$ minutes
working time	$\sim 45$ minutes
max. layer thickness	10 mm
walkable	after $\sim 2$ hours
ready to be grouted	after $\sim 2$ hours
fully loadable	after $\sim 24$ hours
<b>consumption thin-bed</b>	
6 mm notched trowel	$\sim 2.00 \text{ kg/m}^2$
8 mm notched trowel	$\sim 2.55 \text{ kg/m}^2$
10 mm notched trowel	$\sim 2.95 \text{ kg/m}^2$
<b>consumption mid-bed</b>	$\sim 4.20 \text{ kg/m}^2$
application and substrate temperature	$+5 \text{ }^\circ\text{C}$ to $+30 \text{ }^\circ\text{C}$
<b>cleaning agent</b>	
when fresh	water
when fully cured	cement laitance remover

All times stated refer to the standard atmosphere of  $+23 \text{ }^\circ\text{C}$  and 50 % relative humidity.

Higher temperatures and lower humidity accelerate, while lower temperatures, higher layer thicknesses and higher humidity delay processing time and curing.

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## Substrate preparation

The substrate must be in the following condition:

- ❖ dry, clean and frost-free
- ❖ stable
- ❖ free from grease, paint, cement laitance, separating agents, sinter layers and loose particles
- ❖ in true alignment and perpendicular

### Please also note:

- ❖ unevenness of wall and floor surfaces are to be levelled with BOTAMENT® M 200 Multi-mortar
- ❖ carry out large surface floor levelling with levelling compounds BOTAMENT® M 50 Classic, M 51 Classic or M 53 Extra
- ❖ absorbent substrates must be primed with BOTAMENT® D 11
- ❖ prime calcium sulphate screeds with BOTAMENT® D 11 (2 x undiluted), BOTAMENT® R 20 or BOTAMENT® E 120 (scatter with quartz sand while fresh)
- ❖ where the substrate is plaster → minimum layer: 10 mm, surface condition: rough, not felted or smoothed
- ❖ perform a Concrete Moisture Test to check the residual moisture in cement and calcium sulphate screeds and for plasters

maximum permissible residual moisture		
substrate	unheated	heated
cement screed	2.0- 2.5 %	2.0- 2.5 %
calcium sulphate screed	0.5 %	0.3 %

- ❖ minimum age of concrete substrates: 3 months
- ❖ maximum layer thickness of BOTAMENT® M 21 HP Speed on sanded mastic asphalt screeds: 5 mm

If the substrate is made from non-absorbent material or is made of old tiles, it must first be primed either using BOTAMENT® D 15 (only to be used in interior areas), alternatively with BOTAMENT® R 20 Multiprimer or must receive a scratch coat 24 hours prior to installation using BOTAMENT® M 21 HP Speed.

## Application

- ❖ mix up using cold, clean water while stirring with a slow rotating agitator until a homogenous, stiff and paste-like mass has formed
- ❖ briefly stir again after the maturing time
- ❖ first apply a thin contact layer of BOTAMENT® M 21 HP Speed using the smooth side of the notched trowel onto the substrate
- ❖ then apply BOTAMENT® M 21 HP Speed onto the fresh contact layer with the notched side of the trowel
- ❖ press tiles using light pressure and a side-to-side movement into the adhesive bed and position

## Important Tips

When installing ceramic coverings all existing standards and guidelines in their current versions must be observed.

You can view or download the safety datasheet at [www.botament.com](http://www.botament.com).

To achieve optimal results we recommend conducting a site-specific test sample prior to using.

When fitting larger tiles (especially in connection with heated constructions) and for works in exterior areas, we recommend the use of BOTAMENT® M 21 HP Speed in the combined method (buttering-floating-method).

When bonding insulation boards the current regulations must be observed.

If the substrate is made of gypsum-containing material, the respective manufacturer's guidelines must be observed.

**Important Notice:** The information provided here is based on our experience and is given to the best of our knowledge, but is non-binding. All instructions must be adapted to suit the individual building projects, the application purpose and the specific local conditions. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In any case, the generally accepted technical rules must be adhered to. Edition GB-1804. Further technical details can be found in our technical data sheets on our website: [www.botament.com](http://www.botament.com).  
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