

M21 HP Speed

Premium flexible rapid adhesive thin-bed, medium-bed and pourable bed C2 FTE S1

Botament



M21 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.

PRODUCT 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
- certificated as a system in connection with the BotaGreen AE Sealing and Decoupling Membrane

The application of tiles onto the BotaGreen AE Sealing and Decoupling Membrane which has been fixed with M21 HP Speed can already be done after ~ 90 minutes.

AREAS OF APPLICATION

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
- natural stones which are non-sensitive to 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 DIN 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)

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

SUBSTRATE PREPARATION **Please also note:**

- unevenness of wall and floor surfaces are to be levelled with M200 Multi-mortar
- carry out large surface floor levelling with levelling compounds BotaGreen MegaFlow or M53 Extra
- absorbent substrates must be primed with BotaGreen primer or D11
- prime calcium sulphate screeds with D11 (2 x undiluted), G140 or E120 (scatter G140 and E120 with quartz sand while fresh)
- where the substrate is gypsum → 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

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 M21 HP Speed on sanded mastic asphalt screeds: 5 mm

Gypsum plasters must be dried out. If the substrate is made from non-absorbent material or is made of old tiles, it must first be primed using BotaGreen primer (undiluted) or must receive a scratch coat 24 hours prior to installation using M21 HP Speed.

APPLICATION ADVICE

- 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 M21 HP Speed using the smooth side of the notched trowel onto the substrate
- then apply M21 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

CONSUMPTION

thin bed

6 mm notched trowel	~ 2.00 kg/m ²
8 mm notched trowel	~ 2.55 kg/m ²
10 mm notched trowel	~ 2.95 kg/m ²

medium bed ~ 4.20 kg/m²

IMPORTANT ADVISORIES

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

You can view or download the safety datasheet at www.botament.com.

IMPORTANT ADVISORIES

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 M21 HP Speed in the combined 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.

Before laying tiles and slabs on (highly thermally insulating) porous concrete masonry outdoors, a suitable render must be applied.

Due to the material-related movements of mastic asphalt in case of temperature changes, tile and slab coverings should not be laid on it outdoors.

M21 HP Speed is certificated as a system in connection with the AE Sealing and Decoupling Membrane.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm ³	~ 1.5	
Thermal resistance	°C	> -20 < 80	
Optimum water solids content	%		
Thin-bed		~ 28	
Mid-bed		~ 25	
Pourable bed		~ 32	
Mixing ratio	l		water/25 kg
Thin-bed		~ 7	
Mid-bed		~ 6.25	
Pourable bed		~ 8	
Ageing time	minutes	~ 2	
Open time	minutes	~ 30	
Working time	minutes	~ 45	
Adhesive bed thickness	mm	≤ 10	
Trowelable		≤ 10	
Accessible after	hours	~ 2	
Groutable after	hours	~ 2	
Resilient after (full)	hours	~ 24	
Application conditions	°C	> 5 < 30	

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

base	cement combination with mineral lightweight-fillers and additives
delivery form	25 kg bag 5 kg bag
Storage	Can be stored in cool and dry conditions for at least 9 months in original unopened packs.
Cleaning agent	when fresh: water, when fully cured: cement laitance remover

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by Botament's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2400024591]