



MD1 Speed is a composite sealant used under tiles, both in interior and exterior areas. The product is suitable for the application in wet areas as well as on balconies and terraces and is tested according to EN 14891. Besides MD1 Speed is suitable as roll fixation for the watertight application of sealing membranes and tapes.

PRODUCT PROPERTIES

- Highly elastic and crack-bridging
- Roll fixation for sealing membranes
- Tiling is possible already after ~ 4 hours
- Open to vapour diffusion
- Can be brushed and trowelled
- Excellent application properties

AREAS OF APPLICATION

Sealing of

- concrete, lightweight concrete, and porous concrete
- joint full brickwork
- cement screeds and calcium sulphate screeds
- 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 BP Building boards
- fibre cement boards
- gypsum plaster boards
- gypsum walls
- mastic asphalt screeds (IC 10)

Filling primer for

- timber floor boards
- floor areas made of chip boards and OSB boards

as preparatory measure prior to the application of BOTAMENT levelling compounds.

SUBSTRATE PREPARATION

The substrate must be in the following condition:

- dry up to damp moist, clean and frost-free
- stable
- free from grease, paint, cement laitance, separating agents and loose particles

Please also note:

- close existing cracks in the substrate with R70 Casting resin
- level irregular substrates
- absorbent substrates must be primed with D11 or D1 Speed
- apply a bonding course on existing tile coverings (scratch coat made of MD1 Speed)

APPLICATION ADVICE

Mixing of MD 1 Speed

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- mix up using cold, clean water while stirring with a slow rotating agitator until a homogenous mass has formed
- briefly stir again after the maturing time

Application as composite sealant

Sealings made of MD1 Speed should be done applying at least two layers by using a brush or a spatula. Before the application of the first layer apply a scratch coat to the substrate. The total dry layer thickness of the sealing must reach at least 2.0 mm (correlating with a wet layer thickness of 2.4 mm). The subsequent tile fitting can be performed using M21 Classic, M21 HP, MULTISTAR, MULTISTONE, M 29 HP or BTK200.

Joints, internal and external corners as well as penetrations are covered by including SB78 system sealing tape and accessories as well as SB100 Stretchable zone sleeve in the first layer of the sealant material and worked over with the second layer.

The connection of the sealing made of MD1 Speed with shower trays or bathtubs is done by using SB78 WB Tub sealing tape.

Application as roll fixation for the application of sealing membranes

Application of membranes:

- roll up MD1 Speed opaque and crosswise with a short-pile sheepskin roller
- lay the sealing membrane within the insertion time
- press the sealing membrane firmly onto the substrate by using a rubber roller or a float
- avoid air bubbles and cross jointsLuftblasen
- let the adhesive dry out

Bonding of the butt joints:

- roll up MD1 Speed in the area of the seams with a short-pile sheepskin roller
- lay the sealing membrane or tape within the insertion time
- press firmly onto the substrate using a rubber roller or a float
- avoid air bubbles and cross jointsLuftblasen
- smooth superfluous material with a trowel
- let the adhesive dry out

Application as filling primer

- grind old or lacquered timber substrates
- fill in cracks, gaps, joints and small local depressions flush with the surface using MD1 Speed
- cover the entire surface sharply with MD1 Speed (make a scratch coat with minimal material input)

After the filling primer has cured the Botament levelling compounds can be applied directly onto the prepared floor area (install flexible edging strips in advance).

CONSUMPTION

per mm dry layer thickness ~ 1.2 kg/m²

for manufacturing the necessary dry layer thickness of 2.0 mm ~ 2.4 kg/m²

as roll fixation ~ 0.6 kg/m²

IMPORTANT ADVISORIES

During the hardening process MD1 Speed has to be protected from moisture, draughts, solar radiation as well as from strong temperature fluctuations. While curing the relative humidity must not exceed 80 %.

MD1 Speed must not be exposed to mechanical loads.

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Avoid moisture on the rear side. MD1 Speed is not suitable for sealings against negative water pressure.

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

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

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm ³	~ 1.25	
Thermal resistance	°C	> -20 < 70	
Optimum water solids content	%		
As a composite seal		~ 25	
As a roll fixation		~ 32	
Mixing ratio	l		water/20 kg
		~ 5	as a composite seal
		~ 6.4	as a roll fixation
Ageing time	minutes	~ 2	
Working time	minutes	~ 30	
Open time	minutes	~ 20	insertion time for sealing membranes
Interval	hours	≥ 4	between the individual coatings
1)		≥ 4	between the final coat and the application of the tile covering
Accessible after	minutes	~ 90	
Application conditions	°C	> 5 < 30	

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

1) after complete drying

base	special cement and plastic combination
colour	grey
delivery form	20 kg bag 4 kg bag
Storage	Can be stored in cool and dry conditions for at least 9 months in original unopened packs. Protect from frost.
Cleaning agent	when fresh: water, when fully cured: mechanical

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. [2300019512]