

# BOTAMENT® M 12 Stone

## Natural stone mortar thin-bed/pourable bed method

BOTAMENT® M 12 Stone is a rapidly setting natural stone mortar for fitting wall and floor coverings made of almost all calibrated natural stones in interior and exterior areas and for the installation of floor coverings using the conventional method on fresh, earth-moist screeds.

### Properties

- ❖ Fast curing
- ❖ For heated areas
- ❖ Colour: white
- ❖ High protection against efflorescence and discoloration
- ❖ High crystalline water-binding capacity

### Application Areas

Bonding of

- ❖ natural stones such as granite, porphyry, quartzite, Solnhofen slabs and marble

### Suitable substrates

- ❖ concrete, lightweight concrete and porous concrete
- ❖ joint full brickwork
- ❖ plasters of the mortar categories CS II, CS III and CS IV (compressive strength  $\geq 2.5 \text{ N/mm}^2$ )
- ❖ BOTAMENT® Bauplatten [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 fillers and additives
packaging	25 kg bag
storage	cool and dry at least 9 months in its original sealed container
density	~ 1.6 kg/dm <sup>3</sup>
temperature resistance	- 20° C to + 80° C
optimal water-solid ratio	~ 24 % as thin-bed adhesive ~ 29 % as pourable bed adhesive ~ 31 % as contact slurry
mixing ratio	thin-bed: ~ 6.0 l water / 25 kg pourable bed: ~ 7.25 l water / 25 kg contact slurry: ~ 7.75 l water / 25 kg
maturing time	~ 2 minutes
open time	~ 15 minutes
working time	~ 40 minutes
max. layer thickness	10 mm
walkable	after ~ 3 hours
ready to be grouted	after ~ 3 hours
fully loadable	after ~ 24 hours
<b>consumption</b>	
6 mm notched trowel	~ 2.5 kg/m <sup>2</sup>
8 mm notched trowel	~ 3.5 kg/m <sup>2</sup>
10 mm notched trowel	~ 4.0 kg/m <sup>2</sup>
application and substrate temperature	+ 5° C to + 30° C
<b>cleaning agent</b>	
when fresh	water
when fully cured	dependent on stone type

All times stated refer to the standard atmosphere of +23° C and 50 % relative humidity. Higher temperatures and lower humidity accelerate, while lower temperatures 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 made even with BOTAMENT® M 90 or M 100 levelling mortar
- ❖ large surface floor levelling with levelling compounds BOTAMENT® M 50, M 51 or M 52 Duoplan
- ❖ absorbent substrates must be primed with BOTAMENT® D 11
- ❖ 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 and for plasters

Maximum permissible residual moisture		
Substrate	unheated	heated
Cement screed	2.0 %	2.0 %
Calcium sulphate screed	0.5 %	0.3%
Gypsum plaster	1.0 %	

If the substrate is made of non-absorbent material or if it is made of old tiling, it must first be primed: either by using BOTAMENT® D 15 (only to be used in interior areas) or by applying a scratch coat 24 hours prior to installation using BOTAMENT® M 12 Stone, whereby the mixing water must be made up to 1/3 of BOTAMENT® D 10 bonding emulsion. Concrete substrates must be at least 6 months old. An earlier installation from an age of just 3 months is possible, if the mixing water of BOTAMENT® M 12 Stone is made up to 1/3 of BOTAMENT® D 10 bonding emulsion. When laying onto sanded mastic asphalt screeds (mortar layer thickness max. 5 mm) the mixing water must be enhanced in the same way, using BOTAMENT® D 10.

### Application

#### Use as bonding mortar

- ❖ 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 12 Stone onto the substrate using the smooth side of the notched trowel
- ❖ then apply BOTAMENT® M 12 Stone 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 put into position

Natural stone coverings must be bonded throughout.

#### Use as contact slurry

- ❖ mix up using cold, clean water while stirring with a slow rotating agitator
- ❖ briefly stir again after the maturing time
- ❖ pour BOTAMENT® M 12 Stone onto the fresh screed and spread using a smoothing or notched trowel (observe open time)

### Important Tips

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

You can view or download of 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.

**Attention:** A number of different natural stones are available in the market, which are sometimes sold under identical names. Because of substances specific to a type of stone or based on the substrate, irreversible discolorations or efflorescence may be experienced. Absorbent natural stones may develop water stains or crowning. Some slate types also contain separating substances.

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

BOTAMENT® M 12 Stone must only be mixed with the additives mentioned in this data sheet.

**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-1208. 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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