

Single-component pavement joint mortar for paving, slabs and clinker covers

Properties and application:

BOTAMENT® Garden PF 1K is suitable for the grouting of natural stone paving, concrete stone paving, slabs and clinker covers on garden paths, domestic pathways and terraces with pedestrian traffic as well as and for private properties (driveways to garages) with moderate, occasional car loads. Trafficked areas ought to be made of a rigid structure in accordance with the German RStO.

The fully cured joint mortar looks similar to a loose sand joint, but has high resistance against being washed out and suction road sweepers. The joint remains easy to clean and can be drained.

Substrate preparation:

The underlying structure must be constructed to be sufficiently load-bearing in terms of loads to be expected, must be water permeable and frost-resistant. A substrate that is not permeable to water will get waterlogged and frost will cause damage to the joint.

The joints must be at least 5 mm wide and 30 mm deep. Surfaces and joint shoulders must be clean so as to ensure good shoulder bonding and to avoid dirt being permanently entrapped.

If required wash or rinse stones first. Highly absorbent stone types must be pre-moistened prior to grouting in order to reduce binder residue on the paving stone surface which is normally unavoidable. Avoid stagnant moisture. Mask off adjoining areas which are not being grouted.

Application:

BOTAMENT® Garden PF 1K is ready mixed. Cut open the vacuum plastic bag and pour onto the sufficiently pre-moistened paving surface.

Sweep BOTAMENT® Garden PF 1K firmly and deeply into the joints immediately after opening the bag using a hard broom (plastic or coconut bristles) or with a hard rubber squeegee.

Using a fine water jet to 'wash' in the grout results in better compaction of the joint material. Don't aim the water jet directly onto the joints.

Brush off the mortar bits that remain on the surface with a soft broom in a criss-cross motion diagonally to the joint direction. Already brushed off mortar remnants must not be used to fill empty joints.

The paving area must be thoroughly cleaned off all mortar remnants, since residue that has not been removed will stick to the surface after the adhesive has cured; it can then only be removed by mechanical means.

The laitance film that usually occurs after synthetic resin bonding can be reduced to a minimum when following regulations and guidelines. Any potentially arising colour deepening disappears over time due to weathering and mechanical loading. In interior areas it wears off purely through the effects of mechanical stresses.

When applying BOTAMENT® Garden PF 1K to particularly fair-coloured and open-pore stone types the binder agent may cause certain effects such as darkening. We recommend installing a sample area with the paving in question in order to make a reliable evaluation of the finished appearance.

Over time colour changes may occur as a result of dirt and weather impact. When working inside ensure sufficient ventilation.

After-treatment:

The fresh joints must be protected from heavy rainwater for 24 hours; light showers are harmless. Where a protective sheet is used sufficient ventilation must be ensured. The sheet should not be in direct contact with the paving.

BOTAMENT® Garden PF 1K

- Ready-for-use
- Easy application
- Prevents plant growth in the joint
- Can be mixed to a slurry and is self-compacting
- High weather and frost resistance

BOTAMENT®

Garden PF 1K

Material basis:

one-component, modified, anaerobically hardening liquid polymer

Colours:

sand
stone-grey
basalt

Density:

approx. 1.65 g/cm³

Grain size:

0.3-1.3 mm

Compressive strength:

approx. 8.0 N/mm²

Tensile strength:

approx. 4.0 N/mm²

Joint width:

at least 5 mm

Joint depth:

at least 30 mm

Application time:

approx. 30 minutes

Water permeability:

approx. 12 l/m²/min.
(at 20 % joint share)

Application temperature:

Frost-free substrate
from >0 °C to +30 °C

Walkable:

after 24 hours

Fully loadable:

after 7 days

Cleaning:

when fresh with standard cleaning agents, when solid by mechanical means

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Tips:

All processing times are based on a temperature of +20 °C and 65 % relative humidity, unless otherwise stated. Higher temperatures and lower humidity accelerate, while lower temperatures and higher humidity delay processing time and curing. Higher layer thicknesses also delay the curing process.

The technical data sheets of all products used in combination with BOTAMENT® Garden PF 1K must be observed.

The safety data sheet is available upon request or can be found on our website.

To achieve optimum results we recommend conducting a site-specific test sample prior to application.

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For joint width of 5 mm:

Mosaic paving

- 40 x 40 mm: 10,7 kg/m²
- 50 x 50 mm: 9,0 kg/m²
- 60 x 60 mm: 7,6 kg/m²

Small paving stones

- 100 x 80 mm: 5,3 kg/m²
- 100 x 100 mm: 4,8 kg/m²
- 120 x 100 mm: 4,4 kg/m²

Large paving stones

- 160 x 160 mm: 3,4 kg/m²
- 160 x 180 mm: 3,2 kg/m²
- 180 x 180 mm: 2,9 kg/m²

Tile covers

- 200 x 200 mm: 2,4 kg/m²
- 300 x 300 mm: 2,0 kg/m²
- 600 x 400 mm: 1,2 kg/m²

The consumption quantities stated are average amounts. Deviations from these amounts are therefore possible due to site-specific conditions.

Packaging

25 kg PE bucket, container vacuum-sealed

Storage:

Important Notice: The information provided in this data sheet 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-1005. This edition will become invalid when a new version is published. Up-to-date data sheets can be downloaded from our website www.botament.co.uk.

Dry and frost-free, do not expose to massive lasting temperature changes. Minimum shelf life of 12 months in its original sealed container.

Regulations and guidelines:

The following regulations, datasheets and guidelines must be followed in their respective current versions:

- DIN 18318:2006 Construction works for traffic lanes - stone and tile pavements without binding elements, kerbsides
- DIN EN 1341:2001 paving slabs made from natural stone for outside areas – requirements and test methods
- DIN EN 1342:2003 paving clinker made from natural stones for outside areas – requirements and test methods
- DIN EN 1338:2003 paving stones made from concrete – requirements and test methods
- DIN EN 1344:2003 paving clinker – requirements and test methods
- ÖNORM B 2214, paving works, standard contract of services
- Additional technical contract terms and conditions and guidelines for the construction of paved surfaces and tiled covers
- Additional technical contract terms and conditions and guidelines for excavations in road construction
- Additional technical contract terms and conditions and guidelines for load-bearing layers in road construction
- Guidelines for the standardisation of superstructures of traffic surfaces
- WTA Datasheet E-5-21-07/D Bound construction – traditional paving