



**Renovating, Modernising, Repairing**  
Fitting tiles and natural stones





## Renovating, Modernising, Repairing Content

|  |           |   |           |
|--|-----------|---|-----------|
| <b>Introduction</b>  | <b>3</b>  | <b>Fitting covers in wetrooms</b>                       | <b>24</b> |
| <b>Levelling and preparing substrates</b>                        | <b>4</b>  | Liquid tanking for showers and bathrooms                | 25        |
| Levelling floors and walls using firm levelling compounds        | 4         | Waterproofing membranes in showers and bathrooms        | 27        |
| Levelling floors using rapid screeds                             | 5         | <b>Floor coverings outside</b>                          | <b>28</b> |
| Preparing substrates – priming                                   | 6         | Sound planning coupled with the right system            | 29        |
| Levelling floors with self-spreading levelling compounds         | 8         | Sealing slurries for balconies & terraces               | 30        |
| <b>Adjunct: Tiles and natural stone</b>                          | <b>10</b> | Waterproofing membranes on balconies & terraces         | 31        |
| Examples for tiles and natural stones                            | 11        | <b>TERRACHAMP</b>                                       | <b>32</b> |
| Varieties of tiles and natural stones                            | 12        | With drainage sheets                                    | 32        |
| <b>Fitting tiles and natural stones</b>                          | <b>14</b> | With drainage mortar                                    | 33        |
| Rendered and un-rendered brickwork                               | 15        | <b>Fitting special materials</b>                        | <b>34</b> |
| Plasterboard, dry screeds, fibre cement boards & building boards | 16        | Large-sized slabs/tiles and synthetic resin-bound tiles | 36        |
| Concrete and ready-made concrete parts                           | 17        | <b>Product Overview</b>                                 | <b>38</b> |
| <b>Adjunct: Screed</b>   | <b>18</b> | <b>Tables</b>   | <b>48</b> |
| <b>Fitting covers onto existing, critical substrates</b>         | <b>20</b> |   |           |
| Residual existing old covers, coatings, old tiles & paints       | 21        |   |           |
| Sound attenuation on critical substrates                         | 22        |   |           |
| Metal, wood, polymers and polyester                              | 23        |   |           |



Systems from BOTAMENT® for any application area

## Introduction

### The renovation, modernisation and repair market

Over the past few years the requirements around the laying of tiles and natural stones has changed dramatically. New builds continue to be in decline, while demand in the area of renovation, modernisation and the repair of existing building stock has risen steadily. This has gone hand in hand with changing requirements for the products used in these areas.

Especially when construction work is carried out on existing building stock executing companies are frequently confronted with unforeseeable circumstances and are always pressed for time as the building works impact on adjoining residents. Here at Botament we take such issues into consideration. Many years of research and development enable us to offer highly efficient products with excellent application properties to suit today's market. The products from our Multifamily range – which combine several product functionalities in one – mean professional builders have flexibility and can effect immediate actions that become necessary.

### Our goal: health & safety and kind to the environment

Botament product systems do not just stand out because of their exceptional application qualities. Especially when renovating, modernising and repairing it is important to consider health & safety aspects and the environmental impact of the products used. Using construction chemicals may harbour health risks that are not immediately obvious – both during application and after completion of the building works.

Long before the new EU chemical regulation, REACH\*, came into force, Botament paid due attention to long-term health & safety and environmental aspects when selecting raw materials and of course in terms of the production process itself. Hence all our product systems fulfil the requirements of the European Chemical Directive REACH\*.

Moreover, our special product features offer the best possible safety in terms of indoor air quality. This is identified through our "Low Emission" seal. The matter of dust reduction has also been tackled by us. Many products

have already been adapted to dust-reducing formulas – not only of benefit to applicators when handling such products on a daily basis; it has the added benefit that it makes the time-consuming and troublesome fixing of dust-sheets and dust covers to protect rooms and inventory obsolete.



\* REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals. It is the EU Chemical Directive that came into force on June 1st, 2007.



## Levelling floors and walls using firm levelling compounds

Wall and floor surfaces are seldom in such good condition that would allow them to be covered with tiles or slabs immediately or without doing some kind of prep work beforehand. This is almost always true when it comes to restoration works, but even in new buildings it may be necessary to carry out some levelling or smoothing works in order to achieve the necessary surface evenness (DIN 18202 "Tolerances in Building Construction") needed for a thin-bed type installation; plus, damage spots need to be made good and butt joints or break-outs have to be filled and closed off.

Apart from this, it is often necessary, let's say on balconies or in bathrooms where walk-in showers are to be installed, to first create a gradient layer so that the water flows off right where it needs to.

For these purposes firm materials such as BOTAMENT® M 90 light levelling filler (up to 30 mm), BOTAMENT® M 100 levelling mortar (from 3 to 50 mm)

are ideal. Both products may be used in interior and exterior areas and are ready to be worked on after approximately 2 hours.



Installation of a gradient layer with BOTAMENT® M 100 in flush-to-floor shower areas.



Levelling off uneven wall surfaces with BOTAMENT® M 100 in layer thicknesses of up to 50 mm.



Application of a thin-layer of the levelling filler BOTAMENT® M 90 across the entire area.



Working over the BOTAMENT® M 90 area with a float for smoothing down.



## Levelling floors using rapid screeds

In the event of old cement screeds or concrete slabs showing breakouts or isolated defects, these areas can quickly and easily be made good using BOTAMENT® M 56 Speed FM ready-to-go rapid screed mortar. However, sometimes the old screed can no longer be made good, worse still, there may not even be one. When it comes to working on residential properties with the occupants being around at the same time it is essential to have systems that can be fitted with the respective covers or tiles as soon as possible. A new screed installed using BOTAMENT® M 56 Speed FM can be fitted with tiles after as little as 4 hours later. Long curing and drying times are thus a thing of the past. Prior to commencement of repair works or installation of a new screed any cracks in the solid substrate that may be present must be filled first using R70 Pouring Resin 2K (2 parts).



1 Application of BOTAMENT® M 56 Speed onto the separation layer



2 Remove excess screed



3 Rub off screed



4 Smooth down screed



## Substrate preparation Primer

The correct primer forms the basis of a professional substrate preparation. BOTAMENT® D 11 Deep Primer is ideal for all absorbent substrates such as cement screeds, calcium sulphate screeds, porous concrete, sand lime stone brickwork, plasterboards and mineral renders. Any residual dust left on the surfaces or inside pores is made solid through the priming. In addition, D11 reduces the building materials' absorbency and produces uniform absorbency conditions across the entire substrate. This prevents premature dehydration of subsequently installed leveling compounds and ensures tile adhesives do not cure too quickly, safeguarding optimal bonding between cover and substrate. Smooth, non-absorbent substrates, such as wood and timber materials, existing old tiling, water-insoluble paints and coatings and unpolished mastic asphalt screeds are primed using BOTAMENT® D 15\* Bonding Primer. The quartz sand this primer contains makes it possible for the

mineral building materials that are applied subsequently to hold on to or 'claw' onto the substrate.

### Priming absorbent substrates:



1 Absorbent floors are primed with BOTAMENT® D 11



2 BOTAMENT® D 11 can be applied with a roller or a brush.

### Priming non-absorbent substrates in interior:



3 Firmly bonded coatings are primed using BOTAMENT® D 15.



4 Priming of existing unpolished mastic asphalt with BOTAMENT® D 15.

\* Only for interior use



For many applications BOTAMENT® R 20 Multiprimer is the right primer to use. It is effective both as a primer for smooth, densely-structured concrete, but is also a protection against moisture penetration from the rear. Thanks to its inherent quartz sand content the fresh primer no longer needs to receive a final scattering of sand.

### Production of contact layers.

As an alternative to priming, it is also possible to create contact layers produced from cement-based and highly polymer-modified materials. This method is particularly suitable when pre-treating smooth, non-absorbent substrates in exterior areas, such as old tiles on balconies and terraces. Smooth concrete surfaces are also ideal to be prepared in this way. BOTAMENT® MD 1 Speed Flexible sealing slurry is excellent for this purpose and application is simple.



1

Application of BOTAMENT® Multiprimer R 20 onto a calcium sulphate screed that needs to be protected against moisture penetration from the rear.



2

Roll BOTAMENT® Multiprimer R 20 onto the cleaned steel plate.



3

Installation of a bonding course with BOTAMENT® MD 1 Speed onto an existing terrace cover.



4

Application of the sealant (in two layers) BOTAMENT® MD 1 Speed also integrating a BOTAMENT® SB 78 system sealing tape and an interior corner.



Levelling floors

## with self-levelling compounds

Levelling compounds are the ideal way to deal with large floors that need to be levelled. In addition to fast application and easy handling they furthermore produce a perfect substrate on which to lay tiles and other floor coverings. Levelling compounds not only provide the answer to the problem of levelling out impermissible dimensional tolerances in a surface or to level out different heights in repair measures, they are also generally required where extra large tile sizes or smooth floor coverings - such as PVC or linoleum - demand such a high degree of evenness that screeds simply aren't able to produce. Before the levelling compound is applied the floor surfaces are first primed and edging strips are fixed to the rising building parts. When the compound is mixed up, particular attention must be paid to ensuring that the exact amount of water is added to the mix.

In addition to levelling compounds that are suitable for a diverse range of applications such as BOTAMENT® M 50 Classic (up to 20 mm layer thickness) and BOTAMENT® M 51 Classic (from 5 to 30 mm layer thickness) there are also special levelling compounds such as BOTAMENT® M 53 Extra is at hand. This fibre-reinforced levelling compound offers added security with regard to crack formation and may be installed up to an overall 40 mm height by adding quartz sand.

### INSERT THE TURBO!

Adding BOTAMENT® BS 50 Speed accelerator to the BOTAMENT® levelling compounds M 50 Classic and M 51 Classic makes it possible to fit tiles after just 90 minutes.





### Preparing the substrate in record time

In order to greatly shorten the process of making the substrate level, BOTAMENT® BS 50 Speed may be used as an accelerator for levelling compounds; this will assist professional installers who are then able to fit the tiles to the substrate after just 90 minutes waiting time - simply by adding it as an additive to the mixing water.



1

Absorbent floors are primed with BOTAMENT® D 11.



2

Pouring out the levelling compound BOTAMENT® M 50 Classic.



3

Distribution of the poured out levelling compound BOTAMENT® M 50 Classic using a smoothing trowel.



4

Aerating the levelling layer with a spiked roller.



## Adjunct: Tiles and natural stones



Options, options and yet more options

## Examples for tiles and natural stones

### TILES



Slit plate



Multicolor Mosaic



Travertin



The „classics“: stoneware 30 x 30 cm



Old kitchen wall tiles



Marble, Bianco Carrara



Antique-Tile



Glass tiles



Sandstone

### NATURAL STONE



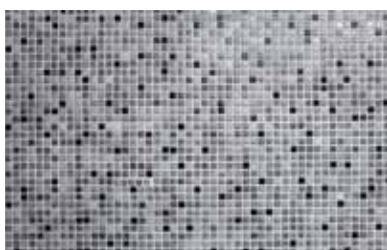
Multicolor Mosaic



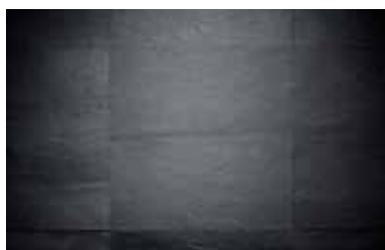
Slate tiles (uncalibrated)



Marble



Mini-Mosaic



Slate tiles (calibrated)



Solnhofen tiles



## Introduction

# Different types of tiles and natural stones

### TILES

The term 'tile' is used for all types of ceramic coverings found in homes, bathrooms and public swimming pools, and those used outside as ground covers. Besides the wide range of colours and shapes their fundamental difference lies in their water absorbency and the firing and making process used in their manufacture.

**Stoneware tiles** have a white, yellowish or reddish body and are easy to handle for the tiler. They are frequently "dry-pressed" and fired at a heat of around 1,000° C. The porous body features high water absorbency, which excludes their use for exterior areas. They are mainly used as classic tiles for bathrooms and kitchens.

**Vitreous stoneware** is popular for use in areas with high load scenarios. The clay is fired at temperatures around 1200° C, which results in a much denser body. In contrast to non-vitreous stoneware tiles vitreous tiles can be used as floor tiles. They can be used anywhere – from nor-

mal domestic usage right down to use in industrial settings.

**Porcelain tiles** are fired at roughly 1300° C, which is near the sintering threshold. Due to the density of the body and the low water absorbency they are considered as frost-proof, which makes them suitable for use outside. In the past they used to be popular mostly as floor tiles – both in polished and unpolished form – they are nowadays also frequently chosen for walls in large-scale formats measuring up to 0.60 x 1.20 m.

Nowadays, **glass mosaics and glass tiles** are industrially manufactured and come ready-made on strips of netting or paper. The transparency of the material gives it a sophisticated look. Glass is easy to clean and very resistant against acid. As it comes in many colours and shapes it is a versatile design tool and is highly popular.

### NATURAL STONE

A natural stone has been a very long time in the making. In contrast to industrially made tiles or

slabs it took several millions of years to make a 'natural stone'. As a purely natural product its appeal lies in its uniqueness and beauty. What's more, natural stones come in a wide range of shades, are robust and very resistant.

They are classified based on how they came to be formed.

The following is an overview of the most common natural stones.

### Igneous rock

Igneous rocks came about through the slow cooling of magma underneath the earth's crust. As a result of the high pressure such natural stone has a particularly dense matrix. Igneous rocks are granite, syenite, porphyry and basalt.

### Granit

Granit is one of the best-known plutonic rocks. It consists of quartz, feldspar and mica-slate in varying proportions. The stone is very hard, weather-resistant and therefore hard-wearing. The colour spectrum ranges from white, light grey to dark grey. Due to its heavy-duty qualities this stone



is ideal for use as paving stone, window sills, stairs and in heavy-trafficked areas that need to impress. Fitting is generally easy.

#### **Basalt**

Basalt is an extrusive igneous rock that is especially dense, compact and close-grained. The colour ranges from black to a bluish or violet hue.

Basalt is often used for stairs, the entrance steps to front doors, interior claddings, as well as window sills or is used for gardening and landscaping purposes. Fitting basalt tends to be easy.

#### **Sedimentary rocks**

Sedimentary rocks are types of rock that are formed as a result of "weathering and erosion" – originally during the formation of earth and which then were compacted under high pressure. The best-known sedimentary rocks are sandstones, various schist types, limestone and dolomite.

#### **Sandstones**

Sandstone is widespread and consists almost entirely of quartz. Its hardness depends on the degree of solidification. The colour spec-

trum ranges from white, grey and beige to red and green. Sandstones can be used in many different areas and are also frequently found in gardening and landscaping projects, e.g. to produce borders and brickstones. Important to bear in mind is the fact that many sandstones only have moderate frost-de-icing salt resistance and are therefore subject to suffer from weather and environmental impacts. This proneness to heavy weathering is easy to see on old church façades.

#### **Metamorphic rocks**

##### **Marble**

Probably the best-known metamorphic rock of all is marble. It is an unpretentious but beautiful and rather versatile stone. It is formed as a result of crystalline metamorphism of limestone. Marble is easy to polish and work with. The colour spectrum ranges from snow-white to almost black and encompasses almost all other colours in between. When fitting marble it is important to use light-coloured and rapidly setting adhesives and joint mortars in order to avoid discoloration.

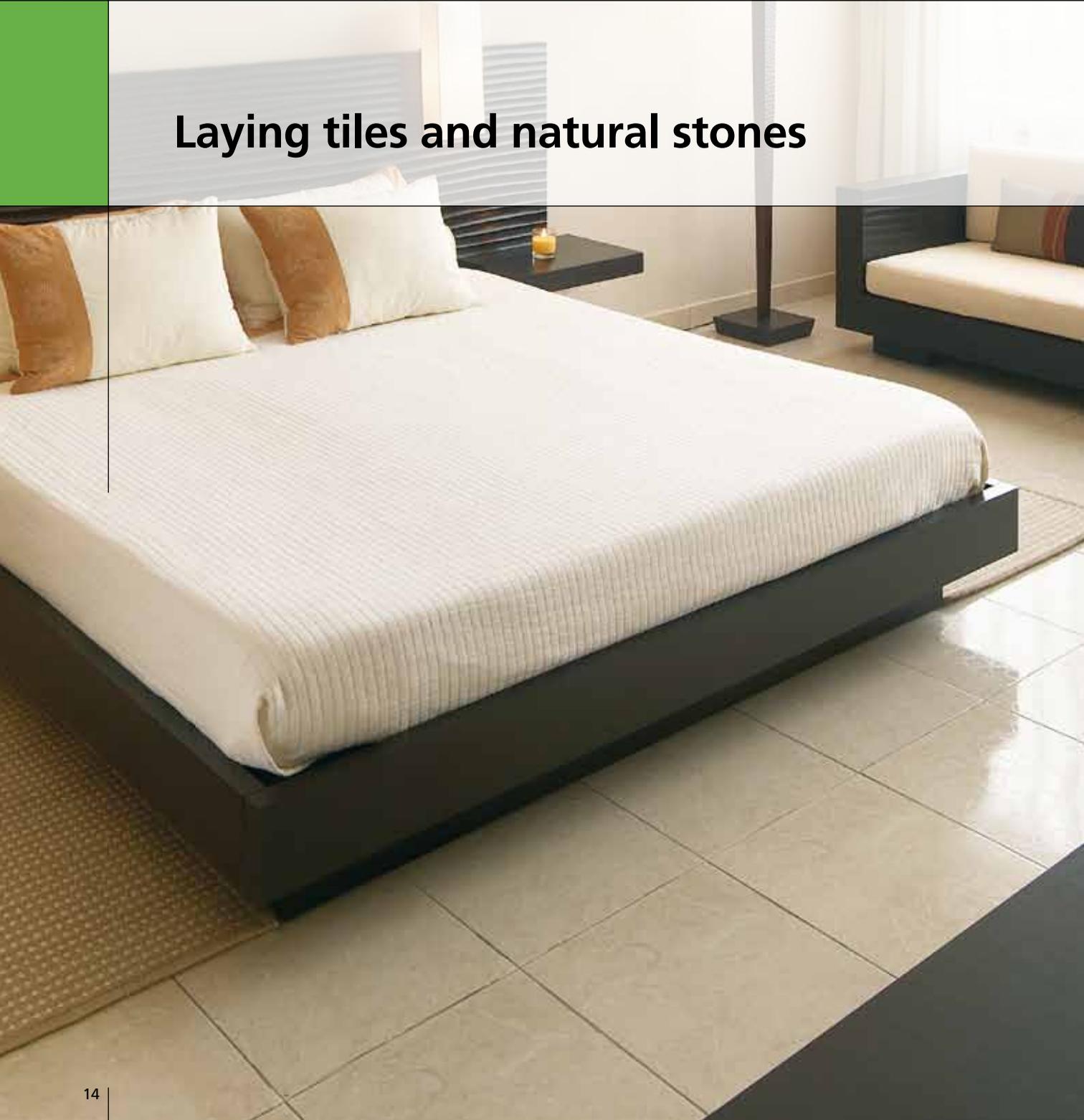
##### **Slate or Schist**

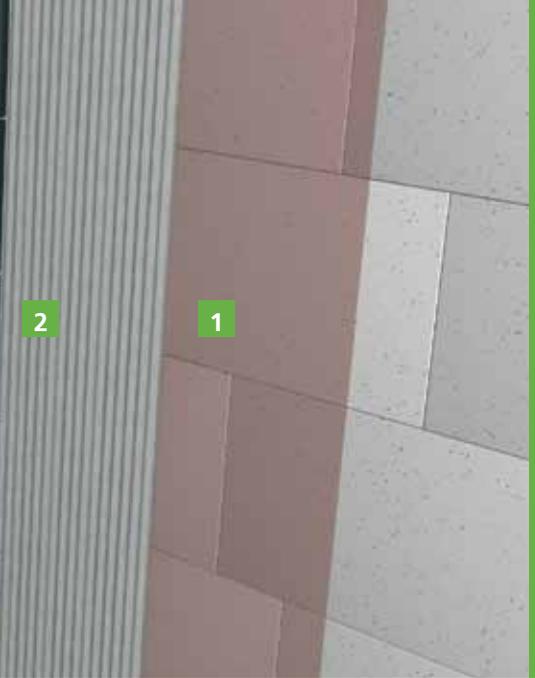
Schist or mica-slate is metamorphic stone derived from shale. Its colour range is black to greyish silver, sometimes with greenish or bluish hues.

Since slate is a rather dense stone which has no capillarity but contains hydrophobic substances (oils), a bonding course always ought to be laid as well when fitting this type of stone.



## Laying tiles and natural stones





Laying tiles and natural stones

## Rendered and exposed brickwork

### Exposed brickwork:

When laying tiles and natural stones on exposed brickwork such as porous concrete, sand-lime brick, brick, pumice stone etc. it is important for the substrate to be level and perpendicular.

Country-specific regulations and standards must be followed.

### Rendered brickwork:

In principle renders of the class CS II, III and IV in accordance with EN 998-1 are suitable if they have a minimum compressive strength of 1.5 N/mm<sup>2</sup>.

#### SYSTEM COMPONENTS

Deep-action primer  
**BOTAMENT® D 11**

If need be level using:

Light and stable levelling mortar  
**BOTAMENT® M 90** (up 30mm) or  
Levelling grout  
**BOTAMENT® M 100** (3–50mm)

Multifunctional nat. stone & tile  
adhesive **MULTISTONE®** or  
Multifunctional tile adhesive  
**MULTISTAR®**

Multi-purpose grout  
**MULTIFUGE®Fine** (up 7mm) or  
**MULTIFUGE®FineSpeed**  
(up 10mm)

Mixed brickwork is not suitable for tile or natural stone covers. Here additional decoupling using BOTAMENT® thin-decoupling must be carried out.



Priming the substrate with the single component deep-action primer BOTAMENT® D 11.



Spreading out MULTISTAR® or MULTISTONE® with a suitably large notched trowel.

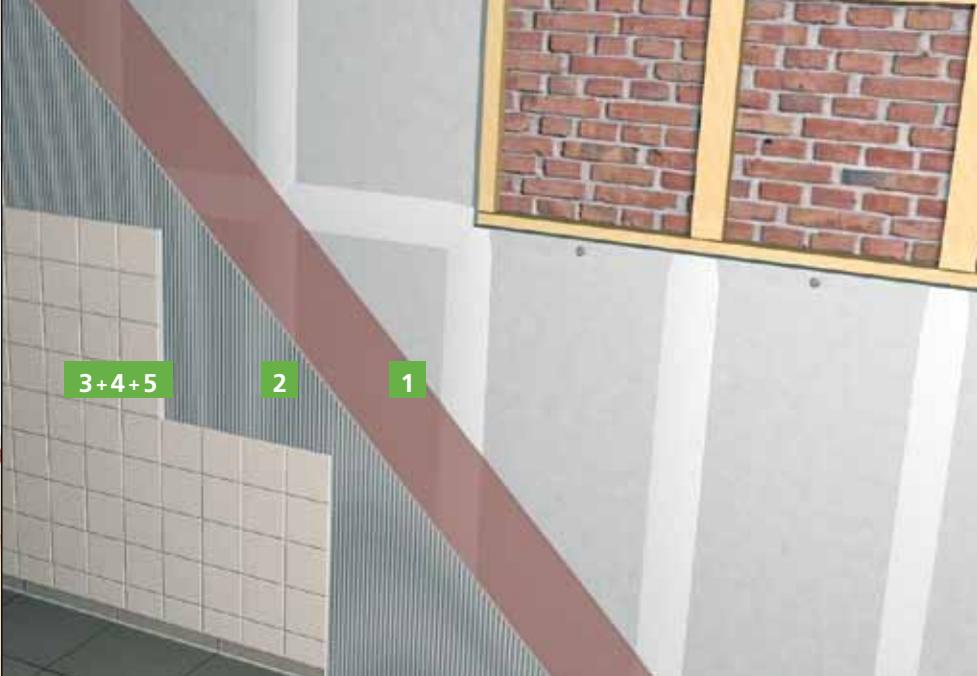


Positioning of the tiles into the adhesive bed made from MULTISTAR® or MULTISTONE®.



Washing out the joints lightly without leaving a laitance film.

Alternative products from BOTAMENT® can be found from page 38.



Laying tiles and natural stones

## Plaster board, dry screeds, fibre cement boards and building boards

Nowadays, plaster board, fibre cement boards, dry screeds and building boards form an indispensable part in new build construction, in building extensions and particularly when renovating.

As a matter of principle great attention must be paid to ensuring the construction has static stability and is level and smooth, as these are vital for the durability of the ceramic cover. In general, prior priming using the deep-action primer BOTAMENT® D 11 is necessary on plaster board, fibre cement board and dry screeds.



1

Priming the substrate with the single component deep-action primer BOTAMENT® D 11.



Alternatively for building boards: in the joint areas of the building boards a fabric strip made from BOTAMENT® GS 98 should be inserted to avoid crack formation.



2

Spreading out MULTISTAR® or MULTISTONE® with a suitably large notched trowel.



3

Positioning of the tiles into the adhesive bed made from MULTISTAR® or MULTISTONE®.



4

Grouting with MULTIFUGE®Fine or MULTIFUGE®FineSpeed.



5

Washing out the joints lightly without leaving a laitance film.

### SYSTEM COMPONENTS

Deep-action primer  
**BOTAMENT® D 11**

Multifunctional nat. stone & tile adhesive **MULTISTONE®** or Multifunctional tile adhesive **MULTISTAR®**

Multi-purpose grout **MULTIFUGE®Fine** (up 7mm) or **MULTIFUGE®FineSpeed** (up 10mm)

Alternative products from BOTAMENT® can be found from page 38.



Laying tiles and natural stones

## Concrete and pre-cast concrete elements

The high shrinkage of concrete during the course of its strength development and curing puts great demands on the tile adhesive. Hollow areas and cracks may be the result with regards to ceramic covers. Tile covers should not be bonded with conventional tile adhesive if the concrete is less than 6 months old. The

multifunctional adhesives **MULTISTONE®** and **MULTISTAR®** are the exception here. Concrete and precast concrete elements can be bonded with both of these multifunctional adhesives after just 3 months. The concrete substrate must be thoroughly inspected prior to laying the tiles.

Formwork oil residue and sinter layers may cause damage to the adhesion of the ceramic covers at a later stage. Checking for formwork oil residue can be carried out through wetting the area with water. Sinter layers can in most cases be determined on site by way of a scratch test.

### SYSTEM COMPONENTS

Deep-action primer  
**BOTAMENT® D 11**

Multifunctional nat. stone & tile adhesive **MULTISTONE®** or Multifunctional tile adhesive **MULTISTAR®**

Multi-purpose grout  
**MULTIFUGE®Fine** (up 7 mm) or **MULTIFUGE®FineSpeed** (up 10 mm)



Priming of the concrete with the single component deep-action primer **BOTAMENT® D 11**. Prior to the priming the concrete must be checked for sinter layers and formwork release oil residue.



Spreading out a contact layer of **MULTISTAR®** or **MULTISTONE®**.



Positioning and embedding of the tiles into the adhesive bed of **MULTISTAR®** or **MULTISTONE®**.



Grouting with **MULTIFUGE®Fine** or **MULTIFUGE®FineSpeed**.

Alternative products from **BOTAMENT®** can be found from page 38.



## Adjunct: Screeds

### What is a screed?

Screed is a layer - or several layers - of screed mortar laid directly onto a substrate with or without bonding onto a separation or insulation layer in order to achieve the following functions (either singular functions or a combination of functions combined):

- To reach a specified height
- To be made suitable to receive a certain floor covering
- To be used as is on its own.

In accordance with DIN 18560 "Screeds in Construction", screeds are divided according to the type of installation method, i.e. floating screeds, screeds on separation layers, composite screeds and underfloor heating screeds. Properties and requirements that screeds need to have are regulated under DIN EN 13813 "Screed mortars and materials"

### Cement screed (CT)

This very common screed type is used in all types of buildings. Cement screeds have little susceptibility to moisture, but in the first few weeks after installation show a distinct shrinkage curing behaviour of around 0.5 mm/m. Because of the binding agent used here cement screeds tend to be of a grey colour. They are usually installed as earth-moist mixtures.

Where speed is of the essence rapid screeds are at hand that cure in just a few hours and which can then quickly be covered with tiles. On large-scale building sites floating screeds are occasionally used that offer special qualities.



### Calcium sulphate screed (CA)

This widely used screed type is also being used in all kind of buildings. Calcium sulphate screeds, also called anhydrite screeds, remain susceptible to moisture even after they have cured hence they have to be protected accordingly. On the plus side, there is hardly any shrinkage which means they can be installed with very few joints. Because they conduct heat better than cement screeds they tend to be very popular as screeds for underfloor heating. Because of their binder calcium sulphate screeds are usually rather light in colour, i.e. slightly yellowish to brownish.

Calcium sulphate screeds are predominantly installed as floating screeds (CAF) so as to save time and in order to ensure a perfect screed distribution.





### Mastic asphalt screeds (AS)

This screed is an anhydrous screed on a bitumen basis.

Mastic asphalt screeds are primarily used in commercial and industrial buildings, but are also frequently used to repair old timber boarding.

They do not absorb any moisture and can receive coverings immediately after cooling off. They do however tend to expand significantly under heat impact and for this reason mastic asphalt heating screeds in general should not be tiled over.

What's more, because of their elastic properties these types of screeds are subject to deformation under point loads.



### Magnesia screeds (MA)

This screed is sometimes found in so-called stonewood-screeds (additives made of wood or paper pulp) in old buildings. Nowadays it tends to be installed in industrial buildings using mineral additives.

These so-called industrial magnesite screeds feature particularly hard surfaces that can be loaded immediately.

However, prior to usage magnesia screeds need to receive a protective coating, as they are extremely susceptible to moisture.

In old buildings this protective coat is usually red or green.



### Simple tests to check the load carrying capacity of screeds:

- First of all trust your eyes! A thorough visual inspection can often identify quite a lot of defects
- A scratch test with the grid-scratch device enables an assessment of the load carrying capacity
- The wetting potential test allows assessment of the surface's absorbency
- The wipe-test shows whether there are any separating agents on the surface
- The tapping test gives clues as to the existence of any cavities in the substrate



## Laying onto existing problematic substrates





Laying onto existing substrates

## Old cover residues, coatings, old tiles & paints

A contemporary new natural stone or tile cover adds value to the overall living space. However, removing the existing old cover is laborious, expensive and time-consuming. Non water-soluble, old and hard-to-remove paints, coatings and cover residues can generally be directly over-layed with tiles and natural stones without the need for elaborate removal or sanding down. Smooth paints or coatings must be keyed first.



1

Substrate priming using BOTAMENT® D 15. Alternatively, for exterior areas apply a scratch coat with BOTAMENT® MD 1 Speed.



2

Spreading out MULTISTAR® or MULTISTONE® with a suitably large notched trowel.



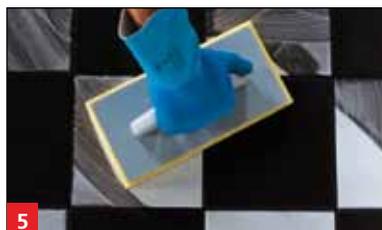
3

Positioning of the tiles into the adhesive bed made from MULTISTAR® or MULTISTONE®.



4

Grouting with MULTIFUGE®Fine or MULTIFUGE®FineSpeed.



5

Optimal washing out of the joints without leaving a laitance film.



6

Highly polished joints with MULTIFUGE®Fine or MULTIFUGE®FineSpeed.

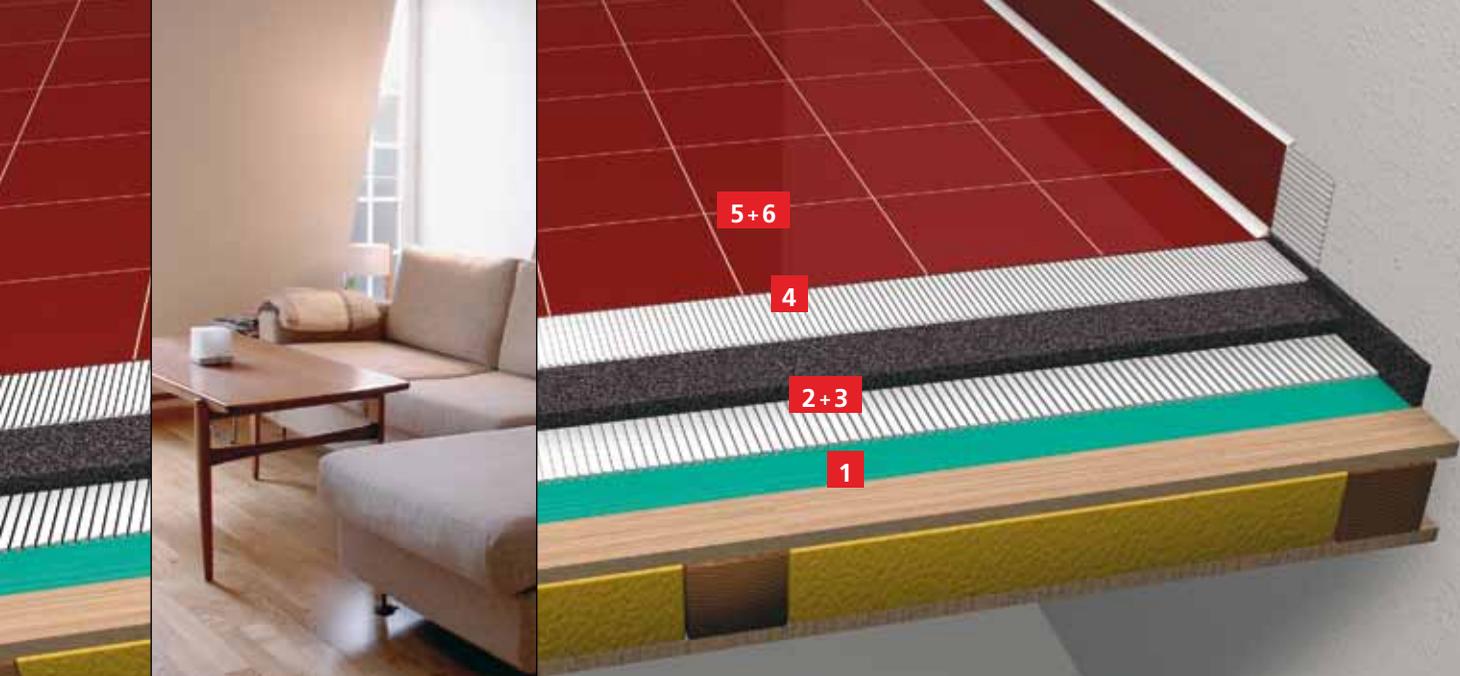
### SYSTEM COMPONENTS

Bonding Primer  
**BOTAMENT® D 15** or  
 for exterior areas  
**BOTAMENT® MD 1 Speed**

Multifunctional nat. stone & tile  
 adhesive **MULTISTONE®** or  
 Multifunctional tile adhesive  
**MULTISTAR®**

Multi-purpose grout  
**MULTIFUGE®Fine** (up 7 mm) or  
**MULTIFUGE®FineSpeed**  
 (up 10 mm)

Alternative products from BOTAMENT® can be found from page 38.



Laying onto existing substrates

## Footfall sound insulation on problematic substrates

By installing a decoupling system reliable, defect-free results are achieved when laying ceramic covers onto problematic substrates, such as timber floor boards, OSB and chipboards, mixed substrates, young concrete or cracked screeds. Repair works frequently also demand the installation of sound insulation. The BOTAMENT® TE Footfall Sound and Decoupling Membrane achieves a footfall sound reduction of 13 dB, tested in accordance with EN ISO 140-8.

### SYSTEM COMPONENTS

Bonding Primer  
**BOTAMENT® D 15** or  
Deep-action primer  
**BOTAMENT® D 11**

**BOTAMENT® TE** Footfall Sound and  
Decoupling Membrane

Multifunctional nat. stone &  
tile adhesive **MULTISTONE®**

Multi-purpose grout  
**MULTIFUGE®Fine** (up 7mm) or  
**MULTIFUGE®FineSpeed**  
(up 10mm)



1 Priming of the varnished timber floor boards with BOTAMENT® D 15, alternatively on cracked screeds with BOTAMENT® D 11.



2 Simple cutting of the BOTAMENT® TE Footfall Sound and Decoupling Membrane with a Stanley knife.



3 Inserting the BOTAMENT® TE Footfall Sound and Decoupling-Membrane into MULTISTONE®.



4 Laying the tiles onto the decoupling membrane with MULTISTONE®.



5 Grouting the cover using MULTIFUGE®Fine or MULTIFUGE® FineSpeed.



6 Washing out the joints without leaving a laitance film.

Alternative products from BOTAMENT® can be found from page 38.



Laying tiles and natural stones

## Metal, wood, synthetics and polyester

The bonding of tiles and natural stones onto metal, wood, synthetic materials, polyester and other problematic substrates is often a challenging task for the floor layer.

BOTAMENT® EF 500/EK 500 is the ideal solution solving the problems such extremely difficult areas pose due to their excellent adhesion, durability and flexibility. In the event of footfall sound insulation being required we recommend fitting our footfall sound and decoupling membrane (see page 22).



1 The metal substrate must be free of separating agents and must be resistant to bending as far as possible. Priming is not necessary.



2 Spreading out BOTAMENT® EF 500/EK 500 onto the metal substrate.



3 Positioning the tiles onto BOTAMENT® EF 500/EK 500. A suitably large notched trowel must be used in order to achieve good bonding transfer.



4 Imbedding the tiles into the adhesive bed.



5 Grouting with MULTIFUGE®Fine or MULTIFUGE®FineSpeed.



6 Washing out the joints lightly without leaving a laitance film.

### SYSTEM COMPONENTS

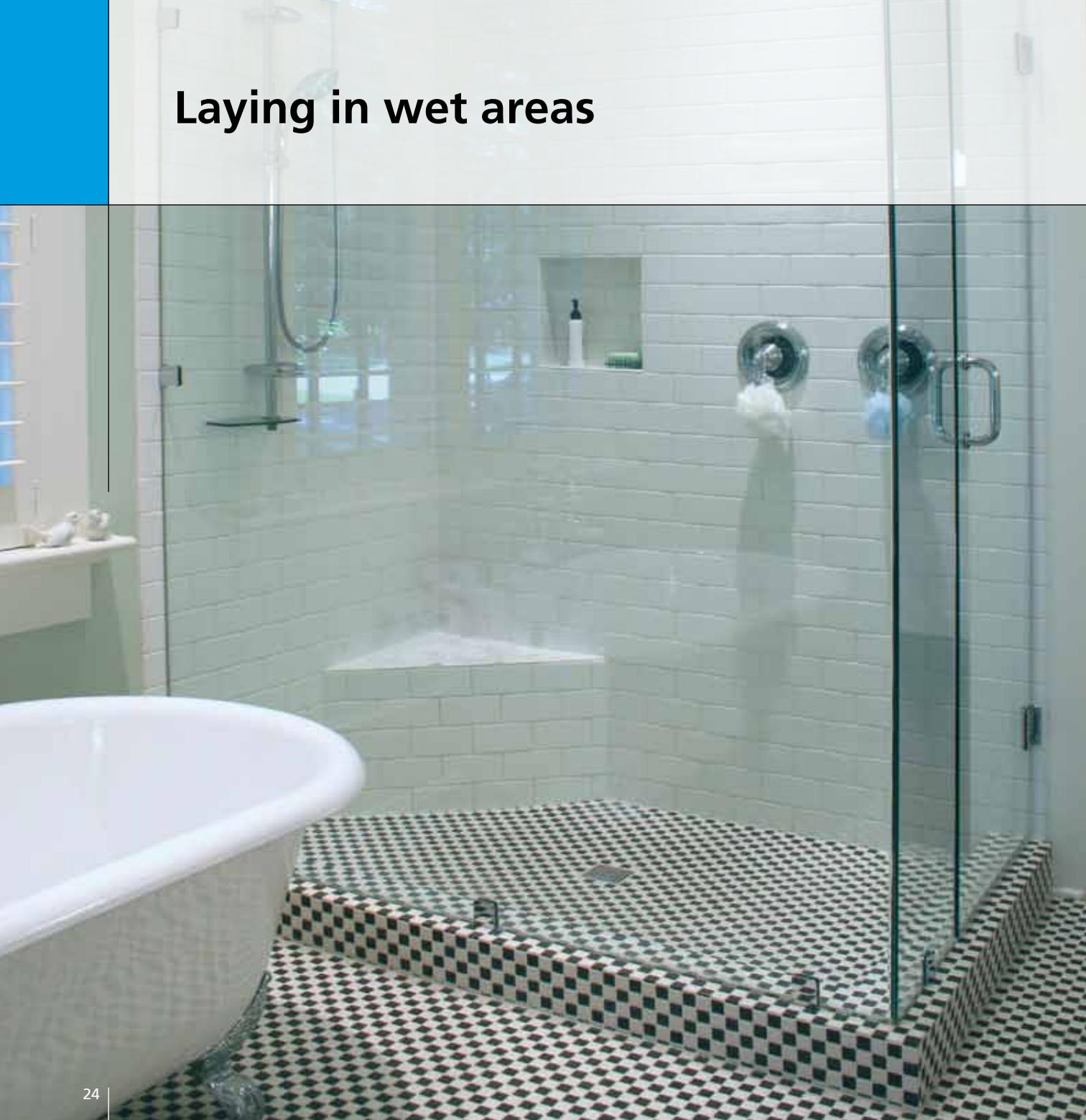
Epoxy resin joint and adhesive mortar 2K  
**BOTAMENT® EF 500/EK 500**

Multi-purpose grout  
**MULTIFUGE®Base** (3-30mm) or  
**MULTIFUGE®Fine** (up 7mm) or  
**MULTIFUGE®FineSpeed**  
(up 10mm)

Alternative products from BOTAMENT® can be found from page 38.



## Laying in wet areas





Laying in wet areas

## Liquid sealing in showers and bathrooms

The laying of tiles in showers and bathrooms is a complex matter. Here it is imperative to carry out all detailed works such as the fitting of sealing tape for instance with due diligence and care. Suitable substrates are plasterboard, lime cement plaster, and rendering.\*

### SYSTEM COMPONENTS

Levelling Grout  
**BOTAMENT® M 100**

Deep-action primer  
**BOTAMENT® D 11**

Sanitary Sealing Tape & Accessories  
**BOTAMENT® SB 78**

Sealing membrane or  
**BOTAMENT® DF 9** or  
Flexible Sealing Coat 1 K  
**BOTAMENT® MD 1 Speed**

Multifunctional nat. stone & tile  
adhesive **MULTISTONE®** or  
Multifunctional tile adhesive  
**MULTISTAR®**

Multi-purpose grout  
**MULTIFUGE® Base** (3–30 mm) or  
**MULTIFUGE® Fine/FineSPEED**  
(up 7 mm/up 10 mm)



1 Installing a fall made from **BOTAMENT® M 100**.



2 Priming of the fall with **BOTAMENT® D 11**.



3 Inserting the **BOTAMENT® SB 78** sealing tapes inclusive inside and outside edges.



4 Rolling out the sealing membrane **BOTAMENT® DF 9** to be applied in 2 layers (alternatively **BOTAMENT® MD 1 Speed**, see table on page 54).



5 Positioning of the tiles into the adhesive bed made from **MULTISTAR®** or **MULTISTONE®**.

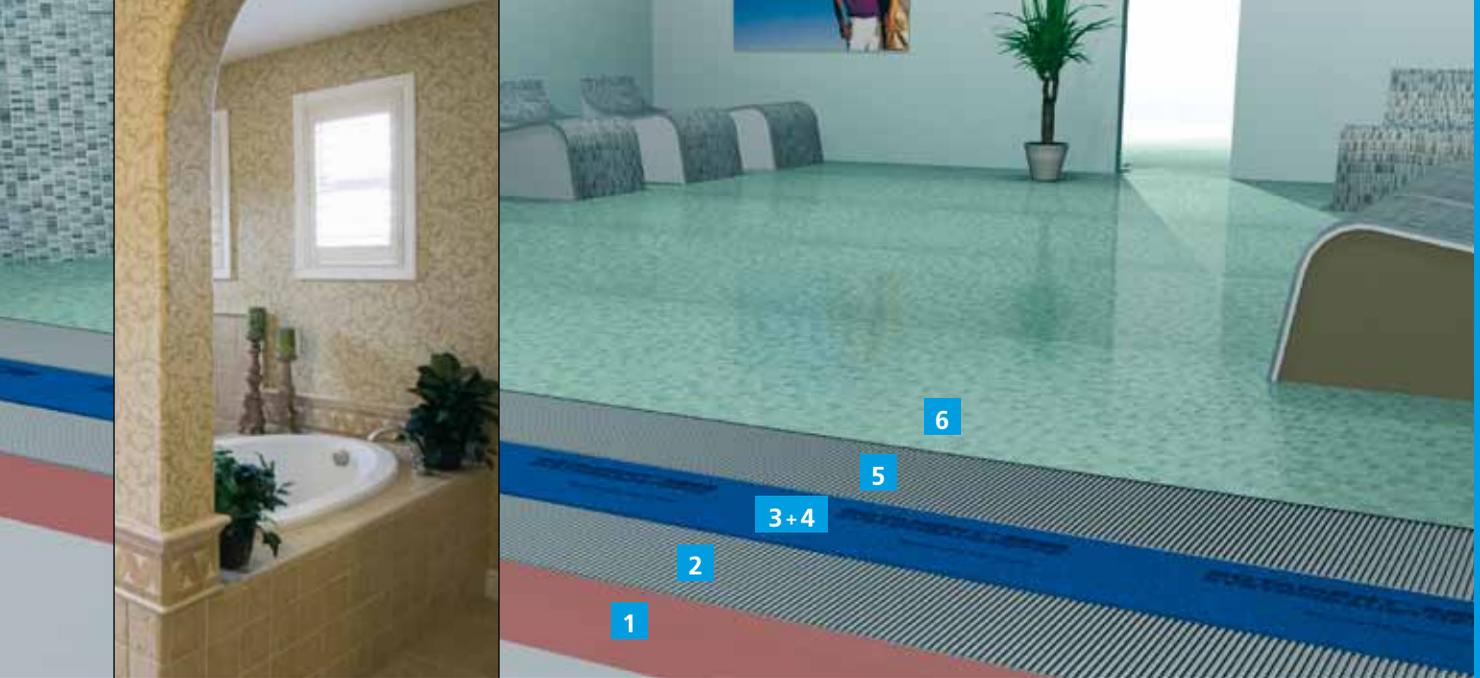


6 Lightly washing out the joints without leaving a laitance film.

Alternative products from **BOTAMENT®** can be found from page 38.

\*Country-specific regulations and standards must be followed





Laying in wet areas

## Sealing membranes in showers and bathrooms

Sealing membranes are increasingly used as the time-saving waterproofing solution for showers and bathrooms. With BOTAMENT® M 21 Classic or BOTAMENT® M 10 Speed BOTAMENT® offers applicators here the advantage of needing just two products to complete the entire construction including both waterproofing and bonding.

### SYSTEM COMPONENTS

Deep-action Primer  
**BOTAMENT® D 11**

Flexible Superior Adhesive  
**BOTAMENT® M 21 Classic /**  
Special Sealant  
**BOTAMENT® M 10 Speed**

**BOTAMENT® AE** Sealing and  
Decoupling Membrane

Sanitary Sealing Tape & Accessories  
**BOTAMENT® SB 78**

Multi-purpose grout  
**MULTIFUGE®Fine** (up 7 mm) or  
**MULTIFUGE®FineSpeed**  
(up 10 mm)



1 Priming with BOTAMENT® D 11.



2 Spreading out BOTAMENT® M 21 Classic / BOTAMENT® M 10 Speed after fitting of the sealing tape and interior edge BOTAMENT® SB 78.



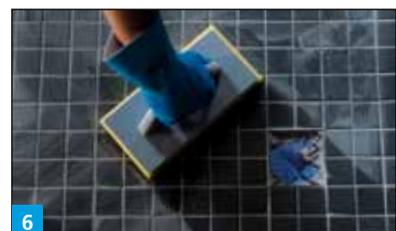
3 Laying the sealing and decoupling membrane in BOTAMENT® M 21 Classic / BOTAMENT® M 10 Speed with a 5 cm overlap.



4 Inserting the BOTAMENT® AE sealing and decoupling membrane into the wall areas.



5 Laying the cover with BOTAMENT® M 21 Classic / BOTAMENT® M 10 Speed.



6 Grouting with MULTIFUGE®Fine or MULTIFUGE® FineSpeed.

Alternative products from BOTAMENT® can be found from page 38.



## Floor coverings outside

Sound planning coupled with the right system



Floor coverings outside

## Sound planning coupled with the right system

Tiles and slabs are the classic coverings for exterior areas.

They are the obvious choice because they look good and are highly practical. Tiles and natural stones are available in many colours and sizes and because of this diverse range, are able to fulfil most customers' design ideas.

The complete grouting of all the joints means tile coverings are easy to clean. Over the years the range of sizes on the market has steadily increased, as did the choice of different cover types; as a consequence fitting products such as adhesives and grouts also continue to have to be adjusted to suit requirements.

Balconies and terraces are exposed to many different stresses. Coverings and flooring installation materials are stressed to their limits. In addition to constant wetness and freeze-thaw cycles, covers also have to withstand thermal stresses and this over many years.

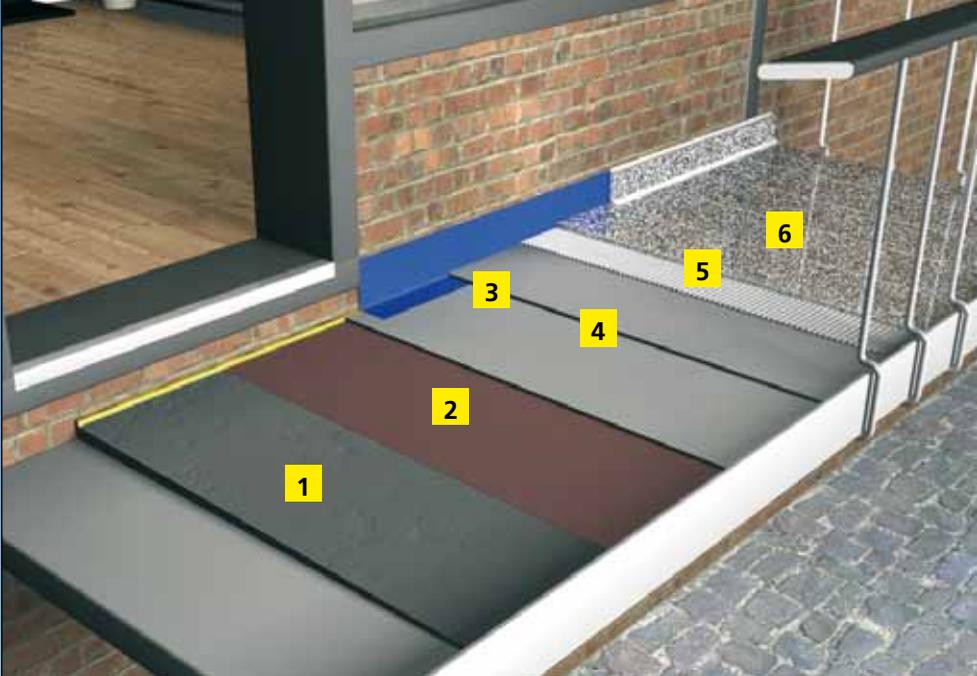
If previously it was the smaller sized formats, mostly consisting

of extruded tiles, customer demand today has changed.

Large-scale formats generally fitted in interior areas are increasingly desired for outside areas as well.

The main aim of our long-standing research & development work was and is to this day to create tailored products that offer you the right solution for any job at hand.





Laying in exterior areas

## Sealing slurries on terraces & balconies

Balcony constructions are subjected to extreme load impacts due to ever changing weather influences of rain, snow, frost and sunshine and the temperature changes that this entails. Moisture frequently damages covers and substrates. As a matter of course we therefore recommend applying a scratch coat prior to installing the first waterproofing layer.



**1** Installing a fall of at least 2 % made from BOTAMENT® M 100.



**2** Priming of the fall with BOTAMENT® D 11.



**3** Inserting the BOTAMENT® SB 78 sealing tape and inside edge into BOTAMENT® MD 2 The Blue 1 or BOTAMENT® MD 1 Speed.



**4** Spreading out the sealants BOTAMENT® MD 2 The Blue 1 or BOTAMENT® MD 1 Speed in two layers.



**5** Laying of uncalibrated natural stones with MULTISTONE®/ BOTAMENT® M 29 HP.



**6** Grouting of joints with MULTIFUGE® Base.

### SYSTEM COMPONENTS

Levelling Grout  
**BOTAMENT® M 100**

Deep-action Primer  
**BOTAMENT® D 11**

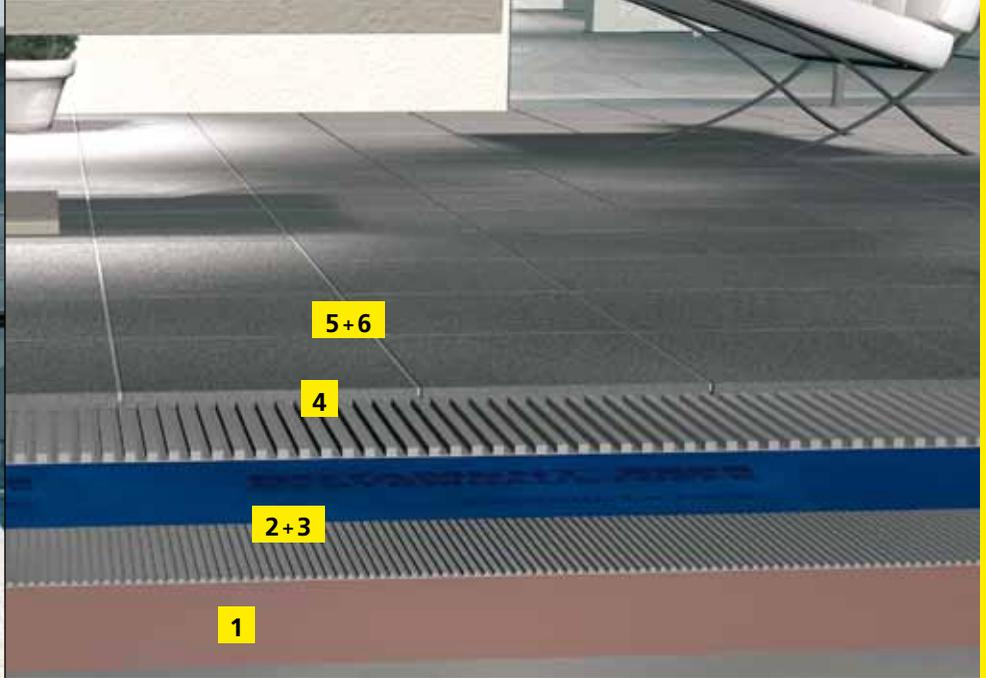
Sanitary Sealing Tape & Accessories  
**BOTAMENT® SB 78**

Special Sealant, 2 comp.  
**BOTAMENT® MD 2 The Blue 1** or  
**BOTAMENT® MD 1 Speed**

Multifunctional nat. stone & tile adhesive **MULTISTONE®** or flexible premium thin-bed/medium-bed adhesive **BOTAMENT® M 29 HP**

Multi-purpose grout  
**MULTIFUGE® Base (3–30mm)**

Alternative products from BOTAMENT® can be found from page 38.



Laying in exterior areas

## Sealing membranes on terraces & balconies

Sealing membranes are also becoming ever more popular when tiles are fitted in exterior areas as application is timesaving.

BOTAMENT® offers the advantage that by using the flexible superior adhesive BOTAMENT® M 21 Classic only two products are needed to complete the entire construction including both waterproofing and bonding.

### SYSTEM COMPONENTS

Deep-action Primer  
**BOTAMENT® D 11**

Flexible Superior Adhesive  
**BOTAMENT® M 21 Classic /**  
Special Sealant  
**BOTAMENT® M 10 Speed**

Sanitary Sealing Tape & Accessories  
**BOTAMENT® SB 78**

**BOTAMENT® AE** Sealing and  
Decoupling Membrane

Multi-purpose grout  
**MULTIFUGE®Base** (3–30mm)



**1** Priming the screed with BOTAMENT® D 11.



**2** Inserting the BOTAMENT® SB 78 sealing tape and inside edge into BOTAMENT® M 21 Classic / BOTAMENT® M 10 Speed.



**3** Laying the BOTAMENT® sealing and decoupling membrane in BOTAMENT® M 21 Classic / BOTAMENT® M 10 Speed with a 5 cm overlap.



**4** Laying the tiles with BOTAMENT® M 21 Classic / BOTAMENT® M 10 Speed applied to substrate and tile.

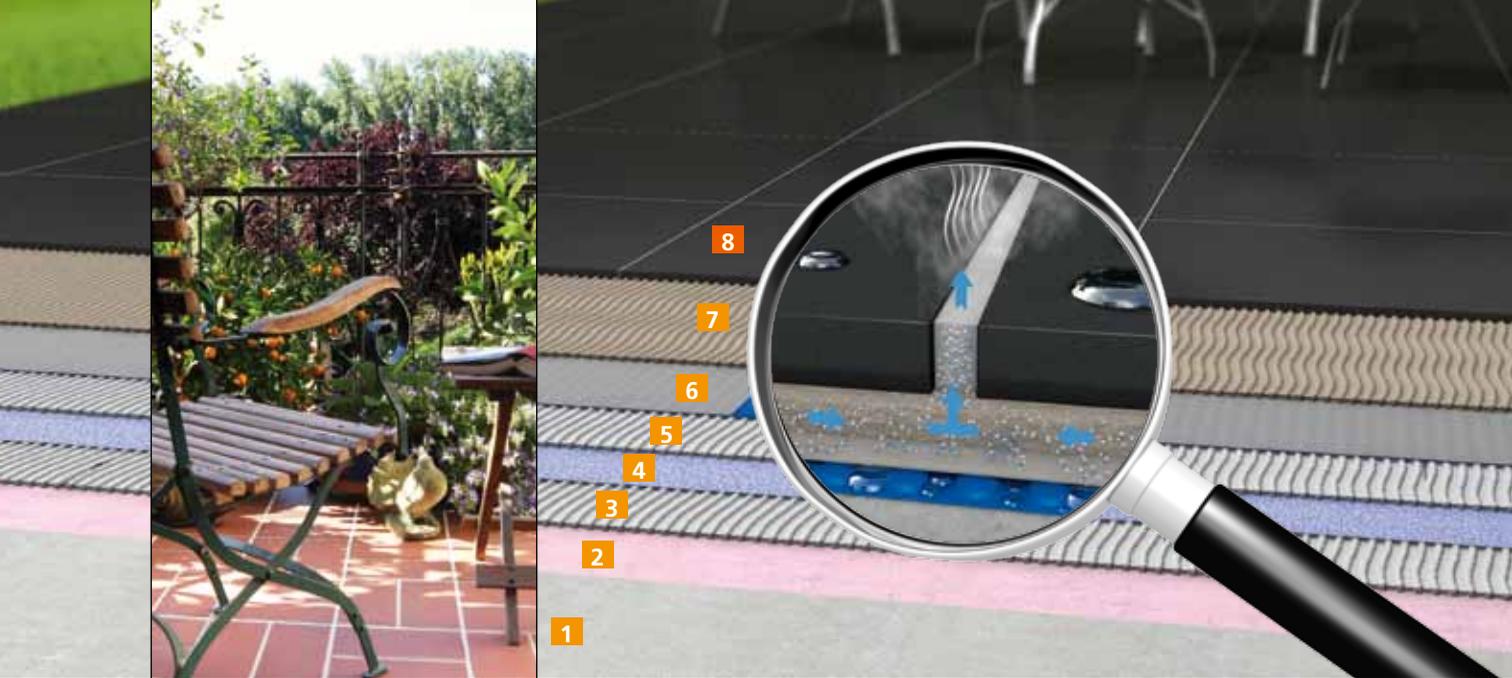


**5** Grouting of joints using MULTIFUGE®Base.



**6** Lightly washing out the MULTIFUGE®Base joints without leaving a laitance film.

Alternative products from BOTAMENT® can be found from page 38.



Always on the safe side

## TERRACHAMP with drainage sheets

The Terrachamp system was developed to meet the requirements of exterior flooring projects.

After many years of R&D we have achieved to create a holistic concept and range of products that contain neither lime nor cement and that can be used on all standard thin-bed drainage systems. Our research focus was on developing a system that ensures the safe installation of challenging covering types, for example large-scale sized tiles, porcelain tiles and natural stones.

### SYSTEM COMPONENTS

Rapid Screed Binder  
**BOTAMENT® M 56 Speed**  
 Rapid Screed Ready-to-use Mortar  
**BOTAMENT® M 56 Speed FM**

Deep-action Primer  
**BOTAMENT® D 11**

Special Sealant  
**BOTAMENT® M 10 Speed**

Sealing and Decoupling Membrane  
**BOTAMENT® AE-Bahn**

Special Sealant  
**BOTAMENT® M 10 Speed**

Commercial  
**BOTAMENT® Drainage**

Balcony and Terrace Adhesive 2c R2  
**BOTAMENT® BTK 200 Terrachamp**

Balcony and terrace joint mortar 2c  
**BOTAMENT® BTF 200 Terrachamp**



After the BOTAMENT® D11 primer has been rolled on and has dried the BOTAMENT® sealing and decoupling membrane is bonded with BOTAMENT® M 10 Speed can be applied using a 4 to 6 mm notched trowel. Edges must overlap in direction of the flow.



The drainage sheet is applied in accordance with manufacturer's instructions. In fixed installation BOTAMENT® M 10 Speed is applied using a 6x6 mm notched trowel and the drainage sheet is then embedded into the adhesive bed applying light pressure with a smoothing trowel.



BOTAMENT® BTK 200 TERRACHAMP is applied with a notched trowel that suits the respective size of the tile covering. The combined installation method or a cavity-free installation is not necessary!



BOTAMENT® BTF 200 TERRACHAMP can easily be inserted into the joints using a rubber trowel. In high temperatures the joint does not flare up and can be washed for quite some time.



Once the grout starts setting it is moulded with a grouting sponge and the excess material is washed off.



The result is a fantastic looking outside cover with a magnificent colour-fast joint which stays like this for a very long time.



Always on the safe side

## TERRACHAMP with drainage mortar

Time and time again applicators are facing the problem of construction heights being too low, especially when they are doing repairs. The BOTAMENT® BTD 200 Terrachamp drainage mortar as system component makes it possible to produce a load distribution layer that is at least 20-mm-strong, is load-bearing and capable of draining. This reduces the height of the overall construction by around 50 %. What's more, the surface is walkable very quickly and can be covered with tiles or natural stone after approx. 8 hours using the BOTAMENT® BTK 200 Terrachamp adhesive for balconies and terraces.

### SYSTEM COMPONENTS

Tested in accordance with DIN 18195

**BOTAMENT®**  
**Bitumen self-adhesive sheeting**

Separate single-layered  
**BOTAMENT® PE-Foil**

Balcony and Terrace  
**BOTAMENT® BTD 200 Terrachamp**  
**DRAINAGE MORTAR 2C**

Balcony and Terrace Adhesive 2c R2  
**BOTAMENT® BTK 200 Terrachamp**

Balcony and terrace joint mortar 2c  
**BOTAMENT® BTF 200 Terrachamp**



This problem scenario is a frequent headache for applicators. Waterproofing is in place (bituminous or plastic sheeting), but how on earth can a sensible construction with tiles or natural stone still be installed here?



A single-layered PE foil is applied onto a waterproofing made in accordance with DIN 18195 and onto a substrate with a minimum 1.5 to 2 % gradient; the foil must overlap, rising up against adjoining walls along the borders.



After fitting of a perimeter insulation strip the drainage mortar can be applied; at least 2 cm thickness is required, any excess must be removed and the mortar must be smoothed down.



The BOTAMENT® BTK 200 TERRACHAMP adhesive is applied on top of the drainage mortar using a notched trowel that suits the respective tile size.



Finally, BOTAMENT® BTF 200 TERRACHAMP is inserted into the joints of the fully dried cover and is then washed clean.



## Fitting special materials





Laying special materials

## Large and resin-bonded tiles

Large tiles are all the rage and are popular choices for both the private and the public sector, where they are frequently used in multi-storey car parks, shopping malls and train stations. For the floor laying industry this trend represents a great challenge in terms of application technology.

Installations using the thin-bed method may be problematic without prior preparations such as filling or levelling, even if the existing site is within the dimensional tolerances according. The specified dimensional tolerances are in general not sufficient to achieve a level ceramic floor when laying large tiles. Bear in mind the additional expenses when calculating costs.

To level floor surfaces our levelling compounds BOTAMENT® M 50 Classic, M 51 Classic and M 53 Extra with their optimal flow properties are ideal. Suitable for wall areas are our levelling mortars BOTAMENT® M 90 und M 100. Both products can be overlaid with ceramic tiles after a couple of hours.

For the subsequent laying of the floor tiles we recommend our multifunctional adhesive MULTISTAR® in pourable-bed consistency.

Because of the increased requirements as regards to stability we also refer to our multifunctional adhesive MULTISTAR® in slump-free thinbed consistency. As a matter of principle, prior to laying large tiles the reverse side of the tiles should receive a contact layer of the tile adhesive before they are embedded into the adhesive bed.

### Tensions in the tile cover

Tensions in the tile cover is a frequently occurring defect in tile fitting. A tile cover made with large tiles is much more prone to damage caused by tension.

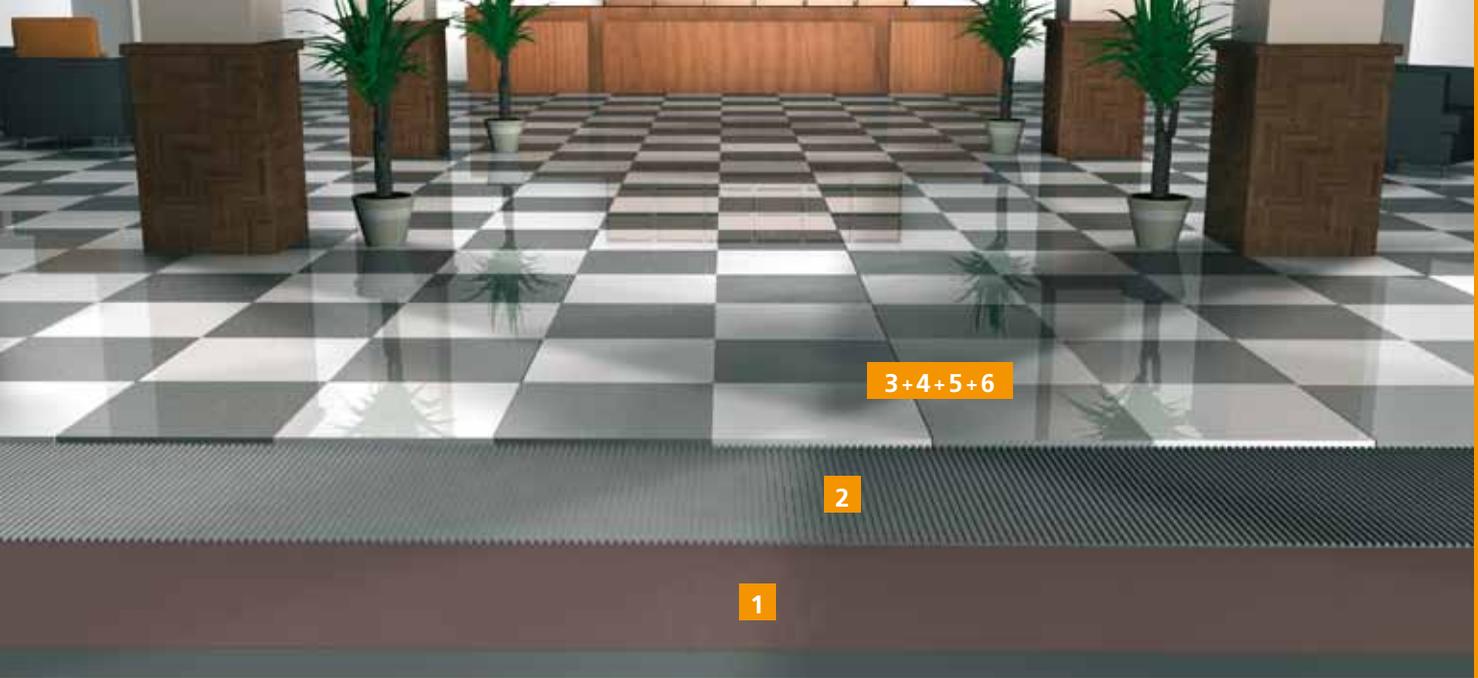
So as to reduce the problem of tension formation in large-scale tiling fitters should use the following:

- a sufficiently thick adhesive bed with good wetting (contact adhesive, i.e. applying adhesive to tile and substrate),

- strictly adhere to the times required by screeds and tile covers with regard to heating up phase and being ready to receive the respective cover,
- use light-coloured tiles/slabs in exterior areas,
- if necessary, use decoupling systems in areas with large window fronts.

### Resin-bonded tiles

Resin-bonded tiles are also very fashionable. While they are pleasing to the eye, they are not without difficulties for the fitter. Many resin-bonded tiles have a tendency of deforming during the fitting process. For these problematic covers our multifunctional tile adhesive MULTISTONE® has proven the ideal solution. In the case of particularly difficult to install tiles we recommend our BOTAMENT® EF 500/EK 500.



In such cases we advise as a matter of course that you contact our BOTAMENT® department, Application Technology, for a personal consultation.



1 Priming the substrate with the deep-action primer BOTAMENT® D 11.



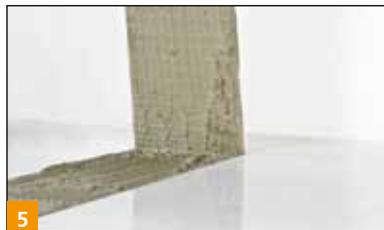
2 Spreading out the tile adhesive BOTAMENT® EF 500/EK 500 or MULTISTONE® in pourable-bed consistency with a suitably large notched trowel.



3 Applying BOTAMENT® EF 500/EK 500 or MULTISTONE® to the reverse side of the tile.



4 Careful embedding of the tile into the adhesive bed.



5 Checking the tile by lifting it up.



6 Grouting of the large joints using MULTIFUGE®Base or MULTIFUGE® Fine or MULTI-FUGE®FineSpeed.

#### SYSTEM COMPONENTS

Deep-action Primer  
**BOTAMENT® D 11**

Multifunkt.-Naturstein- u. Fliesenkleber  
**MULTISTONE®** oder  
Epoxidharz-Fugen- und Klebemörtel  
**BOTAMENT® EF 500/EK 500**

Multi-purpose grout  
**MULTIFUGE®Base** (3–30mm) or  
**MULTIFUGE®Fine/FineSPEED**  
(up 7 mm) or  
**MULTIFUGE®FineSPEED**  
(up 10mm)

Alternative products from BOTAMENT® can be found from page 38.

# Product Overview

| PRIMERS   |  |  |  |  |
|---|--|--|--|--|
|   | Packaging  | Product Description  | Consumption                                  | Claims   |
| <b>BOTAMENT® D 11</b><br>Deep-action primer<br>                          | 1 l bottle (6/box)<br>5 l canister (64/palett)<br>10 l canister (40/palett)<br>200 l barrel<br> | For the priming of very absorbent, mineral-bound substrates, gypsum renders, plasterboard building materials that receive a hydraulically cured thin-bed adhesive grout. For binding dust and regulating absorption of substrates made from concrete, screed, gypsum and brickwork.<br><br>Colour: reddish | approx. 150 ml/m <sup>2</sup> per layer      | <ul style="list-style-type: none"> <li>To be diluted 1:1</li> <li>Fast drying</li> <li>Improves bonding</li> <li>can be rolled or painted on</li> <li>Reduces absorbency</li> <li>Binds dust</li> <li>Solvent-free</li> </ul>  |
| <b>BOTAMENT® D 15</b><br>Bonding Primer<br>                              | 1 kg bottle (6/box)<br>5 kg bucket<br>  | Now also suitable under levelling and filler compounds. As a bonding medium for problematic and non-absorbent substrates, e.g. old tile covers, prior to application of tile adhesives and levelling/filler compounds.<br><br>Colour: turquoise  | approx. 120 g/m <sup>2</sup>                 | <ul style="list-style-type: none"> <li>For tile on tile laying</li> <li>Fast drying</li> <li>Improves adhesion</li> <li>Can be rolled or painted on</li> <li>Solvent free</li> </ul>   |
| <b>BOTAMENT® R 20</b><br>Multiprimer<br>Multi-functional primer 1C<br> | 5 kg Plastic bucket<br>10 kg Plastic bucket  | BOTAMENT® R 20 Multiprimer is a multi-functional, one-component primer for a large range of application areas. The product is suitable as a protective coating for screeds against moisture penetration from the rear.<br><br>Colour: bernsteinfarben  | approx. 150 g/m <sup>2</sup>                 | <ul style="list-style-type: none"> <li>Protective coating for calcium sulphate screeds under large-sized tiles</li> <li>Barrier primer for the laying of coverings susceptible to moisture</li> <li>Quartz sand included so no additional final scattering of sand is needed</li> <li>Very good bonding on absorbent and non-absorbent substrates</li> </ul> |
| <b>BOTAMENT® M 50 Classic</b><br>Levelling Compound up to 20 mm<br>    | 25 kg Paper sack (40/ palett)<br>   | BOTAMENT® M 50 Classic is a self-spreading floor filler used to level substrates in interior and exterior areas.<br><br>Colour: grey   | approx. 1,6 kg/m <sup>2</sup>                | <ul style="list-style-type: none"> <li>Walkable after ~ 3 hours</li> <li>Can be covered with tiles after being walkable</li> <li>For heated areas</li> <li>High surface hardness</li> <li>Castor-proof according to EN 12529</li> <li>Neat running course</li> <li>For layer thicknesses of 0-20 mm in one working step</li> </ul>                           |
| <b>BOTAMENT® M 51 Classic</b><br>Levelling Compound up to 30 mm<br>    | 25 kg Paper sack (40/ palett)<br>   | BOTAMENT® M 51 Classic is a self-spreading floor filler used to level substrates in interior and exterior areas.<br><br>Colour: grey   | ca. 1,8 kg/m <sup>2</sup> je mm Schichtdicke | <ul style="list-style-type: none"> <li>Walkable after ~ 3 hours</li> <li>Can be covered with tiles after being walkable</li> <li>For heated areas</li> <li>High surface hardness</li> <li>Castor-proof according to EN 12529</li> <li>Neat running course</li> <li>For layer thicknesses of 0-20 mm in one working step</li> </ul>                           |

| <b>BOTAMENT® M 53 Extra</b><br>Fibre-reinforced levelling compound up to 40 mm<br> | Packaging   | Product Description   | Consumption                      | Claims   |
|---|---|---|----------------------------------|--|
|   | 25kg Paper sack<br>(40/palett)<br> | BOTAMENT® M 53 EXTRA is a self-spreading floor filler used to level substrates in interior areas.<br><br>Colour: grey | approx.<br>1,5 kg/m <sup>2</sup> | <ul style="list-style-type: none"> <li>• For heated areas and for embedding thin-layered underfloor heating systems</li> <li>• High surface hardness</li> <li>• Castor-proof</li> <li>• Neat running course</li> <li>• For layer thicknesses of up to 40 mm in one working step</li> <li>• For critical substrates</li> <li>• Reduced crack formation</li> <li>• Can be extended with quartz sand to go further</li> </ul> |

| <b>BOTAMENT® BS 50 Speed</b><br>Accelerator for levelling compounds<br> | Packaging  | Product Description  | Consumption                             | Claims  |
|---|--|--|---|---|
|   | 500 ml Plastic bottle<br>(20 bottles per box)<br><br> | BOTAMENT® BS 50 is used as an accelerator for the levelling compounds BOTAMENT® M 50 and BOTAMENT® M 51. The product enables a faster application of ceramic tiles and natural stones on the levelling compounds.<br><br>Colour: white-transparent | 500 ml/ 25 kg bag of levelling compound | <ul style="list-style-type: none"> <li>• Rapid setting of the levelling compounds BOTAMENT® M 50 und M 51</li> <li>• Tiling is possible already after ~ 90 minutes</li> <li>• Universal substitute for rapid levelling compounds</li> <li>• Ideal for time-critical construction sites</li> <li>• Fast construction progress</li> </ul> |

| <b>BOTAMENT® M 90</b><br>Light and stable levelling mortar up to 30 mm<br> | Packaging   | Product Description  | Consumption   | Claims   |
|---|---|--|---|--|
|   | 20kg Paper sack<br>(40/palett)<br> | Fine levelling mortar that goes a long way for the repair and render of wall and floor areas made from concrete and cement screeds. For the production of gradient and levelling layers of thin and thick layer thicknesses. Enables a fast substrate preparation prior to laying tiles and floor slabs.<br><br>Colour: grey | approx.<br>1,3 kg/m <sup>2</sup> per mm layer thickness | <ul style="list-style-type: none"> <li>• For layer thicknesses of up to 30 mm</li> <li>• Ready to be covered after approx. 2 hours</li> <li>• For walls and floors</li> <li>• For interior and exterior areas</li> <li>• Can be feathered out and smoothed</li> <li>• Particularly smooth surface</li> <li>• For areas permanently under water</li> <li>• Goes a long way</li> </ul> |

| <b>BOTAMENT® M 100</b><br>Levelling grout from 3 to 50 mm<br> | Packaging   | Product Description   | Consumption   | Claims  |
|--|---|---|---|---|
|  | 5kg Paper sack<br>25kg Paper sack<br>(40/palett)<br> | Fine levelling grout that goes a long way for the repair and render of wall and floor areas made from concrete and cement screeds. For the production of gradient and levelling layers of thin and thick layer thicknesses. Enables a fast substrate preparation prior to laying tiles and floor slabs.<br><br>Colour: grey | approx.<br>1,3 kg/m <sup>2</sup> per mm layer thickness | <ul style="list-style-type: none"> <li>• For layer thicknesses from 3 - 50 mm</li> <li>• Ready to be covered after approx. 2 hours</li> <li>• For walls and floors</li> <li>• For interior and exterior areas</li> <li>• Can be feathered out and smoothed</li> <li>• For mineral concave mouldings</li> <li>• For areas permanently under water</li> </ul> |

| <b>BOTAMENT® SB 78</b><br>Sanitary sealant tape and accessories                   | <b>Packaging</b><br>50 m roll (12,0 cm)<br><br>Interior edge<br>Exterior edge<br>(both in 10 units)<br><br>Sealing collar<br>120 x 120 mm<br>425 x 425 mm<br>(both in 10 units) | <b>Product Description</b><br>BOTAMENT® SB 78 Sealing Tape & Accessories for the sealing of joint edges and corner joints in wet areas, such as are found in swimming pool construction and in areas subject to chemical loading. To be used as a system in conjunction with the BOTAMENT® damp-proof courses and the rapid reactive sealant BOTAMENT® RD 2 <sup>The Green 1</sup> . BOTAMENT® SB 78 is suitable for use in interior and exterior areas.<br><br>Colour: blue | <b>Consumption</b><br>Depending on application | <b>Claims</b> <ul style="list-style-type: none"> <li>• High elasticity</li> <li>• Tested for stress classes A0, A, B0, B and C</li> <li>• For damp locations, terraces and balconies</li> <li>• Highly tear-proof</li> <li>• Quickly and easily fitted</li> <li>• High aging resistance</li> <li>• High chemical resistance</li> </ul> |
|---|---|--|--|--|
|  |   |  |  |  |

| <b>BOTAMENT® R 70</b><br>Casting resin 2 component                                | <b>Packaging</b><br>8 containers per box (3 container pairs with each 600 ml content, 2 empty containers for mixing subquantities) | <b>Product Description</b><br>BOTAMENT® R 70 is a solvent-free, low-viscose silicate resin to fill in cracks and joints in interior and exterior areas.<br><br>Colour: yellow transparent | <b>Consumption</b><br>depending on requirements | <b>Claims</b> <ul style="list-style-type: none"> <li>• Solid repair of screed cracks</li> <li>• Screed screw anchors not necessary</li> <li>• Fast curing</li> <li>• Very low emissions</li> <li>• Odourless</li> <li>• Mixing up partial quantities is possible</li> </ul> |
|---|--|---|---|---|
|  |  |   |   |   |

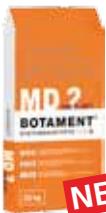
| <b>BOTAMENT® M 56 Speed</b><br>Rapid Screed Binder                                 | <b>Packaging</b><br>25 kg Paper sack (40/ palett)                                   | <b>Product Description</b><br>BOTAMENT® M 56 Speed is a rapidly setting screed binder on cement basis to produce composite screeds, screeds on separation layers and floating screeds.<br><br>Colour: grey | <b>Consumption</b><br>The consumption please refer to the technical data sheet at <a href="http://www.botament.com">www.botament.com</a> | <b>Claims</b> <ul style="list-style-type: none"> <li>• Ready to receive covering after 4 hours</li> <li>• Ideal for time-critical construction sites</li> <li>• Strongly hydrophobic (high protection against moisture penetration from the rear)</li> <li>• For interior and exterior use</li> <li>• On the basis of high-quality CEM I-cement</li> <li>• Shrinkage and stress-minimized curing</li> <li>• Can be pumped</li> </ul> |
|--|---|--|--|--|
|  |  |   |  |  |

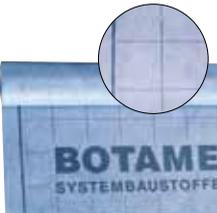
| <b>BOTAMENT® M 56 Speed FM</b><br>Rapid Screed Ready-to-use Mortar                  | <b>Packaging</b><br>25 kg Paper sack (40/ palett)                                   | <b>Product Description</b><br>BOTAMENT® M 56 Speed FM is a rapidly setting ready-to-use mortar on cement basis to produce composite screeds, screeds on separation layers and floating screeds.<br><br>Colour: grey | <b>Consumption</b><br>~ 20 kg/ m <sup>2</sup> / cm | <b>Claims</b> <ul style="list-style-type: none"> <li>• Ready to receive covering after 4 hours</li> <li>• Ideal for time-critical construction sites</li> <li>• Strongly hydrophobic (high protection against moisture penetration from the rear)</li> <li>• For interior and exterior use</li> <li>• On the basis of high-quality CEM I-cement</li> <li>• Shrinkage and stress-minimized curing</li> <li>• Can be pumped</li> </ul> |
|---|---|---|--|--|
|  |  |    |  |  |

## SEALANTS

| <b>BOTAMENT® DF 9 S/R</b><br>Sealing membrane<br><br> | Packaging  | Product Description  | Consumption   | Claims   |
|--|--|--|---|--|
|  | For spatula:<br>12 kg bucket<br>21 kg bucket (16/pallet)<br><br>For roller:<br>3 kg bucket<br>12 kg bucket<br>21 kg bucket (16/pallet) | For the seamless and joint-free surface sealing of damp spaces that are to receive tile cover. Excellent adhesion with mineral tile adhesives.<br><br>Colour: grey | approx.<br>1,2 kg/m <sup>2</sup><br>per mm<br>layer thickness | <ul style="list-style-type: none"> <li>Highly elastic</li> <li>Solvent-free</li> <li>Open to vapour diffusion</li> <li>For interior use</li> <li>For rollers and spatulas</li> </ul> |

| <b>BOTAMENT® MD 1 Speed</b><br>Flexible Sealing Slurry 1c<br><br> | Packaging   | Product Description   | Consumption   | Claims  |
|--|---|---|---|---|
|  | 20kg Paper sack (40/ pallet)<br><br> | BOTAMENT® MD 1 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.<br><br>Colour: grey | approx.<br>1,2 kg/m <sup>2</sup><br>per mm<br>layer thickness | <ul style="list-style-type: none"> <li>Highly elastic</li> <li>Highly crack-bridging</li> <li>Tiling is possible already after ~ 4 hours</li> <li>Open to vapour diffusion</li> <li>Can be brushed and trowelled</li> <li>Excellent application properties</li> </ul> |

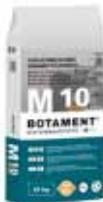
| <b>BOTAMENT® MD 2 THE BLUE 1</b><br>Special sealant 2c<br><br> | Packaging                                     | Product Description   | Consumption                   | Claims  |
|--|---|---|-------------------------------|---|
|  | 20kg Powder<br>10kg Liquid comp.<br>30kg Unit | BOTAMENT® MD 2 <sup>THE BLUE 1</sup> is a composite sealant used under tiles, both in interior and exterior areas. The product is furthermore suitable for the application in swimming pools.<br><br>Colour: blue | ~ 1.6 kg/ m <sup>2</sup> / mm | <ul style="list-style-type: none"> <li>Highly elastic</li> <li>Highly crack-bridging</li> <li>Tested for stress classes A0, A, B0 and B</li> <li>Open to vapour diffusion</li> <li>Protects concrete from corrosive substances</li> <li>Excellent application properties</li> <li>Fulfils the increased requirements of EN 14891</li> </ul> |

| <b>BOTAMENT® AE</b><br>Sealing and Decoupling Membrane<br><br> | Packaging  | Product Description  | Consumption  | Claims   |
|---|--|--|--|--|
|   | Dimension:<br>Length: 10 m<br>Width: 1 m<br>Palett:<br>25 Kartons = 250 m <sup>2</sup><br><br>Length: 30 m<br>Width: 1 m<br>Palett:<br>16 Kartons = 480 m <sup>2</sup> | BOTAMENT® AE Sealing and Decoupling Membrane is a universal composite sealant used under tiles and natural stone coverings, both in interior and exterior areas.<br><br>The product is suitable for the waterproofing of wall and floor areas in private or commercial zones, and can also be used to seal areas which are subject to heavy water loads in connection with chemical exposure as for example in canteen kitchens.<br><br>Colour: blue |  | <ul style="list-style-type: none"> <li>Elastic</li> <li>Tested for stress classes A0, A, B0 und C</li> <li>For damp locations, balconies and terraces</li> <li>Highly tear-proof</li> <li>Quickly and easily fitted</li> <li>Extremely good ageing resistance</li> <li>High chemical resistance</li> </ul> |

## TILE ADHESIVE

| <b>MULTISTAR®</b><br>Multi-function lightweight tile adhesive<br><br> | Packaging   | Product Description   | Consumption  | Claims   |
|--|---|---|--|--|
|  | 15kg sack (40/ pallet)<br><br><br><br> | Multistar is a multifunctional lightweight tile adhesive that can be used as a thin-bed, medium-bed and pourable-bed adhesive and as levelling compound in interior and exterior areas.<br><br>Colour: grey | Thin-bed<br>8 mm notched trowel approx. 2.1 kg/m <sup>2</sup><br><br>Medium-bed<br>Approx. 3.4 kg/m <sup>2</sup><br><br>Pourable bed<br>10 mm notched trowel approx. 2.2 kg/m <sup>2</sup> | <ul style="list-style-type: none"> <li>Highly stable even for large areas (C2FTE)</li> <li>Highest yield</li> <li>Highly flexible in accordance with DIN EN 12002 (S1/S2)</li> <li>For almost every kind of substrate</li> <li>For almost every kind of ceramic cover</li> </ul> |

| MULTISTONE®<br>Multi-functional Tile and<br>Natural Stone Adhesive                | Packaging   | Product Description   | Consumption   | Claims   |
|---|---|---|---|--|
|  | 3kg Paper sack<br>15kg Paper sack<br>(50/ pallet) | Multistone® is a multi-functional light-weight tile adhesive for the fitting of almost all of almost all natural stones as well as ceramic wall and floor coverings in interior and exterior areas.<br><br>Colour: cremewhite | notched trowel<br>- thin-bed:<br>6 mm<br>ca. 2,0 kg/m <sup>2</sup> ,<br>8 mm<br>ca. 2,6 kg/m <sup>2</sup> ,<br>10 mm<br>ca. 3,0 kg/m <sup>2</sup> ,<br>pourable bed:<br>8 mm<br>ca. 2,5 kg/m <sup>2</sup><br>10 mm<br>ca. 2,8 kg/m <sup>2</sup><br>medium-bed:<br>ca. 4,0 kg/m <sup>2</sup> , | <ul style="list-style-type: none"> <li>Highly stable and highly flexible</li> <li>Particularly well suited for large format sizes</li> <li>High yield (goes a long way)</li> <li>Rapid curing</li> <li>Dust-reduced formulation</li> <li>For levelling unevennesses up to 30 mm</li> <li>Suitable for swimming pools and potable water containers</li> </ul> |

| BOTAMENT® M 10 Speed<br>Flexible Rapid Adhesive C2 TE                             | Packaging   | Product Description   | Consumption  | Claims   |
|---|---|---|--|--|
|  | 5kg Paper sack<br>(96 units/s)<br>25kg Paper sack<br>(40 units/s) | BOTAMENT® M 10 Speed is a flexible thin-bed and pourable bed adhesive for tilings which has to be jointed and loaded extremely fast. The product is suitable for the fitting of almost all ceramic wall and floor coverings in interior and exterior areas.<br><br>Colour: light grey | notched trowel<br>6 mm<br>ca. 2,3 kg/m <sup>2</sup> ,<br>8 mm<br>ca. 2,8 kg/m <sup>2</sup> ,<br>10 mm<br>ca. 3,6 kg/m <sup>2</sup> | <ul style="list-style-type: none"> <li>Ready to be jointed and walked on after ~ 90 minutes</li> <li>Can be used in low temperatures</li> <li>For heated areas</li> <li>Flexible</li> <li>certificated as a system in connection with the BOTAMENT® Sealing and Decoupling Membrane</li> </ul> |

| BOTAMENT® M 21 Classic<br>Flexible Superior Adhesive<br>C2 TE                       | Packaging   | Product Description   | Consumption  | Claims  |
|---|---|---|--|---|
|  | 5kg Paper sack<br>(4 units/foil)<br>(96 units/s)<br>25kg Paper sack<br>(40 units/s) | BOTAMENT® M 21 Classic is a flexible thin-bed adhesive for the fitting of almost all ceramic wall and floor coverings in interior and exterior areas.<br><br>Colour: light grey | notched trowel<br>6 mm<br>ca. 2,4 kg/m <sup>2</sup> ,<br>8 mm<br>ca. 3,2 kg/m <sup>2</sup> ,<br>10 mm<br>ca. 3,8 kg/m <sup>2</sup> | <ul style="list-style-type: none"> <li>Flexible</li> <li>High stability</li> <li>For heated areas</li> <li>Suitable for tile on tile fitting</li> <li>Long correction and open time</li> <li>Suitable for swimming pools and potable water containers</li> <li>certificated as a system in connection with the BOTAMENT® Sealing and Decoupling Membrane</li> </ul> |

| BOTAMENT® M 29 HP<br>Premium Flexible Floor<br>Adhesive                             | Packaging                       | Product Description  | Consumption   | Claims  |
|---|---------------------------------|--|---|---|
|  | 25kg Paper sack<br>(40 units/s) | BOTAMENT® M 29 HP is a flexible pourable bed adhesive for the the fast and efficient fitting of almost all ceramic floor coverings in interior and exterior areas.<br><br>Colour: grey | notched trowel<br>10 mm<br>ca. 3,2 kg/m <sup>2</sup><br>medium-bed<br>trowel<br>ca. 4,8 kg/m <sup>2</sup> | <ul style="list-style-type: none"> <li>Maximum productiveness</li> <li>Highly flexible</li> <li>For heated areas, balconies and terraces</li> <li>For tilings almost free of hollow spaces</li> <li>Extremely smooth application</li> <li>For high mechanical loads</li> <li>Particularly well suited for large format sizes</li> </ul> |

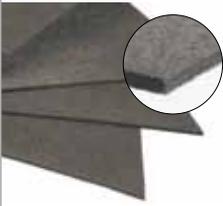
| BOTAMENT® EF 500 EK 500<br>Epoxy resin joint and adhesive<br>mortar 2K<br>joint width 2-10 mm | Packaging           | Product Description  | Consumption  | Claims   |
|---|---------------------|--|--|--|
|            | 5 kg Plastic bucket | BOTAMENT® EF 500/EK 500 is an epoxy resin joint and adhesive mortar for wall and floor coverings in interior and exterior areas with high chemical resistance.<br><br>Colours: white (No. 10), silver grey (No. 16), grey (No. 24) | <u>joint width 8 mm:</u><br>split tiles<br>24 x 11,5 x 1,0 =<br>1,86 kg/m <sup>2</sup><br><u>joint width 5 mm:</u><br>Tiles<br>10 x 10 x 0,8 =<br>1,33 kg/m <sup>2</sup><br>20 x 20 x 0,8 =<br>0,67 kg/m <sup>2</sup><br><u>joint width 3 mm:</u><br>Mosaic<br>2,0 x 2,0 x 0,3 =<br>1,26 kg/m <sup>2</sup> | <ul style="list-style-type: none"> <li>High chemical resistance</li> <li>Easy application</li> <li>Can be cleaned easily with cold water</li> <li>KTW/ KSW- tested</li> <li>Gute Flankenhaftung</li> <li>Hohe Abriebfestigkeit</li> <li>Good shoulder bonding</li> <li>High abrasion resistance</li> <li>Approved for drinking water and use in swimming pools (DVGW W 270)</li> <li>Tested in accordance with EN 12004: R2 T</li> </ul> |

KTW/KSW-approval!

## JOINT MORTARS & SEALANTS

| MULTIFUGE®Base   | Packaging   | Product Description  | Consumption  | Claims  |
|--|---|--|--|---|
| <p>Multi-purpose grout CG2 WA<br/>Joint width 3-30 mm</p> <p>Especially suitable for porcelain stoneware, vitreous stoneware and natural stones.</p>    | <p>5 kg Paper sack<br/>(4 Units/Foil)<br/>(96/ pallet)</p> <p>25 kg Paper sack<br/>(40/ pallet)</p>     | <p>Multifuge®Base is a fast-setting joint mortar suitable for a vast range of application areas and for slurry application in both interior and exterior areas.</p> <p>Due to the excellent working and washing properties the completion of large wall and floor zones is possible within minimised time.</p> <p>Especially suitable for porcelain stoneware, vitreous stoneware and natural stones</p> <p>Colours:<br/>sand grey (No. 15), silver grey (No. 16),<br/>cement-grey (No. 20), grey (No. 24),<br/>titanium grey (No. 25), anthracite (No. 26)</p>  | <p><u>joint width 5 mm:</u><br/>Mosaic<br/>20,0 x 20,0 x 0,8 cm<br/>= 0,75 kg/m<sup>2</sup></p> <p><u>joint width 4 mm:</u><br/>Tiles<br/>30 x 60 x 0,8 x<br/>0,8 x 0,4 cm =<br/>0,36 kg/m<sup>2</sup></p> | <ul style="list-style-type: none"> <li>For joint widths from 3- 30 mm</li> <li>Flexible - For heated areas</li> <li>slurry application without burning up</li> <li>For balconies and terraces</li> <li>Great steam jet and abrasion resistance</li> </ul>                 |
| <p><b>MULTIFUGE®FINE</b></p> <p>Multi-purpose grout CG2 WA<br/>Joint width up to 7 mm</p> <p>Especially suitable for stone-ware and vitreous stoneware.</p>   | <p>4 kg Paper sack<br/>(4 Units/Foil)<br/>(96/ pallet)</p> <p>15 kg Paper sack<br/>(40/ pallet)</p>     | <p>Multifuge®Fine is a versatile applicable joint mortar especially suitable for premium-quality materials which are absorbent and slightly absorbent in both interior and exterior areas.</p> <p>The fine and smooth surface provides the perfect finish particularly in case of exclusive wall and floor zones.</p> <p>Colours:<br/><u>4 kg in Foil:</u> white (No. 10), pergamon (No. 11),<br/>silver grey (No. 16), manhattan (No. 23), grey (No. 24)<br/><u>on pallet:</u> titanium grey (No. 25), anthracite (No. 26),<br/>bahama beige (No. 33)<br/><u>15 kg Paper sack:</u> withe (No. 10), pergamon (No. 11),<br/>silver grey (No. 16)<br/><u>on pallet:</u> manhattan (No. 23), grey (No. 24)</p>  | <p><u>joint width 3 mm:</u><br/>Mosaic<br/>2,0 x 2,0 x 0,3 x<br/>0,3 cm = 1,33 kg/m<sup>2</sup></p> <p><u>joint width 4 mm:</u><br/>Tiles<br/>30 x 60 x 0,8 x<br/>0,4 cm = 0,34 kg/m<sup>2</sup></p>       | <ul style="list-style-type: none"> <li>For joint widths up to 7 mm</li> <li>Flexible - For heated areas</li> <li>Fine and smooth surface</li> <li>Water and dirt-repellent</li> <li>High flank adhesion in slim joints</li> </ul>   |
| <p><b>MULTIFUGE®FineSPEED</b></p> <p>Multi-purpose grout CG2 WA<br/>Joint width up to 10 mm</p> <p>Especially suitable for porcelain stoneware, vitreous stoneware, natural stones and glass mosaic.</p>  | <p>4 kg Paper sack<br/>(4 Units/Foil)<br/>(96/ pallet)</p> <p>20 kg Paper sack<br/>(40/ pallet)</p>    | <p>Multifuge®FineSpeed is a versatile applicable joint mortar especially suitable for premium-quality materials which are slightly absorbent and non-absorbent in both interior and exterior areas.</p> <p>Due to the Hightech Speed Technology wall and floor zones could be already washed after a short period of time. The Fine Speed and smooth surface provides the perfect finish particularly in case of exclusive wall and floor zones.</p> <p>Colours:<br/><u>4 kg in Foil:</u> white (No. 10), pergamon (No. 11),<br/>silver grey (No. 16), manhattan (No. 23), grey (No. 24)<br/><u>on pallet:</u> titanium grey (No. 25), anthracite (No. 26),<br/>bahama beige (No. 33), cocoa (No. 38)<br/><u>20 kg Paper sack:</u> white (No. 10), pergamon (No. 11),<br/>silver grey (No. 16)<br/><u>on pallet:</u> manhattan (No. 23), grey (No. 24)</p> | <p><u>joint width 3 mm:</u><br/>Mosaic<br/>2,0 x 2,0 x 0,3 x<br/>0,3 cm = 1,33 kg/m<sup>2</sup></p> <p><u>joint width 4 mm:</u><br/>Tiles<br/>30 x 60 x 0,8 x<br/>0,4 cm = 0,34 kg/m<sup>2</sup></p>       | <ul style="list-style-type: none"> <li>For joint widths up to 10 mm</li> <li>Flexible - For heated areas</li> <li>Fine Speed and smooth surface</li> <li>Water and dirt-repellent</li> <li>High early strenght and high yield</li> </ul>                                  |
| <p><b>BOTAMENT® S 3<sup>Supax</sup></b></p> <p>Natural Stone Silicone</p>   | <p>310 ml<br/>Plastic Cartridge<br/>(6 per box)</p>   | <p>To produce elastic expansion and connection joints, especially for marble and other natural stones.</p> <p>Colours:<br/>white (No. 10), pergamon (No. 11), silver grey (No. 16),<br/>manhattan (No. 23), grey (No. 24), titanium grey (No. 25),<br/>anthracite (No. 26), bahama beige (No. 33), cocoa (No. 38)</p>  |  | <ul style="list-style-type: none"> <li>Flexible</li> <li>For interior and exterior use</li> <li>Reduces discolouration around the outer edges</li> <li>Suitable for most natural stones</li> <li>Neutral cross-linking</li> <li>Optimal adhesion to tile edges</li> </ul> |
| <p><b>BOTAMENT® S 5<sup>Supax</sup></b></p> <p>Sealing silicone</p>   | <p>300 ml<br/>Plastic Cartridge<br/>(12 per box)<br/>Cocoa (No. 38)<br/>(6 per box)</p>   | <p>To produce elastic expansion joints and connection joints on glass, enamel and ceramics in sanitation facilities and wet rooms.</p> <p>Colours:<br/>transparent (No. 01), white (No. 10), pergamon (No. 11),<br/>silver grey (No. 16), manhattan (No. 23), grey (No. 24),<br/>titanium grey (No. 25), anthracite (No. 26), jasmin (No. 29),<br/>bahama beige (No. 33)</p>   |  | <ul style="list-style-type: none"> <li>Flexible</li> <li>Has fungicidal effect once cured. (exception: Transparent)</li> <li>For interior and exterior use</li> <li>Optimal adhesion to tile edges</li> <li>Acid cross-linking</li> </ul>                                 |

## FOOTFALL SOUND, DECOUPLING AND SEALING

| BOTAMENT® TE Sound attenuation & decoupling board                                 | Packaging  | Product Description   | Consumption | Claims  |
|---|--|---|-------------|---|
|  | <p>Units:<br/>20 Paletts =<br/>12 m<sup>2</sup>/Carton</p> <p>Palett:<br/>6 Cartons = 72 m<sup>2</sup></p> | <p>To eliminate footfall sounds and to decouple critical substrates using low installation heights.</p> <p>Latex-bonded polymer fibre panel</p> <p>Dimensions:<br/>100 x 60 x 0,6 cm (Length x Width x Thickness)</p> |             | <ul style="list-style-type: none"> <li>• Footfall sound reduction by 14 dB under ceramic coverings, tested in accordance with EN ISO 140-8</li> <li>• Only 6 mm installation height</li> <li>• Low surface weight of just 0.8 kg/m<sup>2</sup></li> <li>• Quick fitting thanks to cutting with a carpet knife</li> <li>• Only for interior areas</li> <li>• Insulating</li> <li>• Under laminate flooring, wooden flooring (floating installation) and tiles</li> </ul> |

| BOTAMENT® DE Thin-Decoupling Membrane   | Packaging                                 | Product Description  | Consumption | Claims   |
|---|---|--|-------------|--|
|  | <p>Units:<br/>50 m<sup>2</sup>/Carton</p> | <p>Is ideal for reducing crack formation in critical substrates at a very moderate installation height. In the restoration of old building stock especially the low surface weight and the low layer thickness/construction height of the fleece are an asset.</p> <p>Dimensions:<br/>50m x 1 m x 0,8mm (Length x Width x Thickness)</p> |             | <ul style="list-style-type: none"> <li>• Decouples the covering from the substrate</li> <li>• For stable (cracked) substrates</li> <li>• For mixed substrates</li> <li>• Minimal installation height</li> <li>• Low surface weight</li> <li>• Saves time as it can simply be manually cut with a carpet knife</li> </ul> |

## BUILDING BOARD

| BOTAMENT® RK Box pipe cladding  | Packaging  | Product Description   | Consumption | Claims   |
|---|--|---|-------------|--|
|  | <p>Paletts:<br/>64 units 150 x 150 mm<br/>40 units 200 x 200 mm<br/>40 units 300 x 300 mm<br/>40 units 200 x 400 mm</p> <p><b>Tube box anchor:</b><br/>1 Carton<br/>(100 units, 20 mm)</p> <p><b>Impact Anchors:</b><br/>1 Carton<br/>(250 units, 80 mm)</p> | <p>Ready-made pipe boxing cladding made from BOTAMENT® BP building board for quick and easy assembly.</p> |             | <ul style="list-style-type: none"> <li>• Simple and economic application</li> <li>• Additional insulation</li> <li>• Strong and compression-proof</li> <li>• Lightweight</li> <li>• Water-repellent</li> <li>• Universal application and design potential</li> </ul> |

## TERRACHAMP

|  | Packaging  | Product Description  | Consumption  | Claims   |
|--|--|--|--|--|
| <p><b>BOTAMENT® BTK 200</b><br/><b>TERRACHAMP</b><br/>Balcony and Terrace Adhesive<br/>2c R2</p>  | <p>10 kg Plastic bucket<br/>(33 units/s)</p>   | <p>BOTAMENT® BTK 200 Terrachamp is a diffusion-open reaction resin adhesive mortar for floor coverings on balconies and terraces. BOTAMENT® BTK 200 Terrachamp must exclusively be used together with BOTAMENT® BTF 200 Terrachamp Balcony and Terrace Joint Mortar as a system.</p> <p>Colour: grey</p> | <p>notched trowel<br/>8 mm<br/>~ 4,0 kg/m<sup>2</sup><br/>10 mm<br/>~ 5,0 kg/m<sup>2</sup></p> | <ul style="list-style-type: none"> <li>• Highly vapour-diffusion-open system</li> <li>• Flexibility newly defined and greatly exceeding the requirements of DIN EN 12002</li> <li>• High resistance against freeze-thaw cycles</li> <li>• Unique application characteristics</li> <li>• Installation without need for the combined method</li> </ul> |

|   | Packaging   | Product Description   | Consumption   | Claims  |
|---|---|---|---|---|
| <p><b>BOTAMENT® BTF 200</b><br/><b>TERRACHAMP</b><br/>Balcony and terrace joint mortar 2c</p>  | <p>5 kg Plastic Bucket<br/>(33 Units/s)</p>  | <p>BOTAMENT® BTF 200 Terrachamp is a diffusion-open reaction resin joint mortar suitable for slurry application to install floor coverings on balconies and terraces. BOTAMENT® BTF is suitable for joint widths of 3 to 15 mm. BOTAMENT® BTF 200 Terrachamp must exclusively be used together with BOTAMENT® BTK 200 Terrachamp Balcony and Terrace Adhesive as a system.</p> <p>Colours: sand grey (No. 15), grey (No. 24), charcoal (No. 26)</p> | <p>joint width 8 mm:<br/>split tiles<br/>24,0 x 11,5 x 1,0 =<br/>1,9 kg/m<sup>2</sup><br/>joint width 5 mm:<br/>Tiles<br/>10 x 10 x 0,8 cm =<br/>1,3 kg/m<sup>2</sup><br/>20 x 20 x 0,8 cm =<br/>0,7 kg/m<sup>2</sup><br/>joint width 3 mm:<br/>Mosaic<br/>2,0 x 2,0 x 0,3 =<br/>1,3 kg/m<sup>2</sup></p> | <ul style="list-style-type: none"> <li>• Highly vapour-diffusion-open system</li> <li>• Excellent adhesion to tile edges</li> <li>• Easy to wash with cold water</li> <li>• Revolutionary colour fastness without colour pigments</li> <li>• Optimal application even at high temperatures</li> <li>• For almost all ceramic tiles and natural stones slabs not prone to discolouration</li> <li>• 100 % lime and cement-free – no efflorescence</li> </ul> |

|  | Packaging   | Product Description  | Consumption   | Claims   |
|--|---|--|---|--|
| <p><b>BOTAMENT® BTD 200</b><br/><b>TERRACHAMP</b><br/>Balcony and Terrace Drainage Mortar 2c</p>  | <p>Binder agent BTD<br/>1 kg- Unit<br/>(6 units per box)<br/>(198/Palett)</p> <p>Specialist sand SD<br/>25 kg plastic bg<br/>(40 units/s)</p>  | <p>BOTAMENT® BTD 200 Terrachamp is a reaction resin mortar that is pervious to water for the production of substructures on balconies and terraces, enabling the water to drain off.</p> <p>Colour binder agent: transparent</p> | <p>~ 0,6 kg/ m<sup>2</sup>/ cm<br/>Binder agent</p> <p>~ 16 kg/ m<sup>2</sup>/ cm<br/>Specialist sand</p> | <ul style="list-style-type: none"> <li>• Drainage mortar for the BOTAMENT® Terrachamp system</li> <li>• High resistance against freeze-thaw cycles</li> <li>• Extremely low-shrinkage during curing</li> <li>• Highly loadable</li> <li>• Easy to process</li> <li>• 100 % lime and cement-free – no efflorescence</li> <li>• Makes low mounting heights possible</li> </ul> |

## Product overview

# Adhesive mortar for walls and floors

- Suitable
- Strongly recommended

| Substrate   | Primer   |   |   | Levelling  |  |  |   |   |  |
|---|--|---|---|--|--|--|---|---|--|
|  | <b>BOTAMENT® D 11</b><br>Deep-action primer                                    | <b>BOTAMENT® D 15</b> <sup>3)</sup><br>Bonding Primer | <b>BOTAMENT® E 120</b><br>Epoxy Resin Primer - 2 component construction resin | <b>BOTAMENT® M 50 Classic</b><br>Levelling Compound up to 20 mm<br><b>BOTAMENT® M 51 Classic</b><br>Levelling Compound up to 30 mm | <b>BOTAMENT® M 53 Extra</b><br>Fibre-reinforced levelling compound up to 40 mm | <b>BOTAMENT® M 90</b><br>Light and stable levelling mortar up to 30 mm | <b>BOTAMENT® M 100</b><br>Levelling grout from 3 to 50 mm | <b>MULTISTAR®</b><br>Multi-function lightweight tile adhesive | <b>MULTISTONE®</b><br>Multi-functional Tile and Natural Stone Adhesive |
| <b>Wall</b>   |  |   |   |  |  |  |   |   |  |
| Cement/lime-cement render   | •  |   | •   |  |  | •  | •   | •   | •  |
| Plaster   | •  |   |   |  |  |  |   | •   | •  |
| Cement-based fibreboards, building boards   | •  |   | •   |  |  |  |   | •   | •  |
| Plasterboards   | •  |   |   |  |  |  |   | •   | •  |
| Lightweight concrete  | •  |   | •   |  |  | •  | •   | •   | •  |
| Porous concrete   | •  |   | •   |  |  |  |   | •   | •  |
| Old ceramic covers  |  | •   |   |  |  |  |   | •   | •  |
| Oil paints and lacquers   |  | •   | •   |  |  |  |   | •   | •  |
| Concrete, 3 months old  | •  |   | •   |  |  |  |   | •   | •  |
| Concrete, 6 months old  | •  |   | •   |  |  | •  | •   | •   | •  |
| <b>Floor</b>  |  |   |   |  |  |  |   |   |  |
| Cement screed, unheated   | •  |   | •   | •  | •  | •  | •   | •   | •  |
| Cement screed (heating screed in accordance with DIN 18560)                       | •  |   | •   | •  | •  | •  | •   | •   | •  |
| Cement screed combined with thin-layered heating system                           | •  |   | •   |  |  | •  | •   | •   | •  |
| Calcium sulphate screed, unheated and as heating screed according to DIN 18560    | •  |   | •   | •  |  |  |   | •   | •  |
| Calcium sulphate screed combined with thin-layered heating system                 | •  |   | •   |  |  | •  |   | •   | •  |
| Young cement screed <sup>2)</sup>   | •  |   |   |  |  |  |   |   | • <sup>2)</sup>  |
| Mastic asphalt screed, inside, with scattering                                    |  |   |   |  |  | • <sup>4)</sup>  |   | • <sup>4)</sup>   | • <sup>4)</sup>  |
| Mastic asphalt screed, inside, without scattering                                 |  | •   |   |  |  | • <sup>4)</sup>  |   | • <sup>4)</sup>   | • <sup>4)</sup>  |
| Dry screed/gypsum fibreboards   | •  |   | •   |  |  | •  |   | •   | •  |
| Magnesite and stonewood screed  |  |   | •   | • <sup>2)</sup>  |  | • <sup>2)</sup>  |   | •   | •  |
| Old ceramic covers  |  | •   |   | •  |  | •  |   | •   | •  |
| Oil paints and lacquers   |  | •   | •   | •  |  | •  |   | •   | •  |
| Concrete, 3 months old  | •  |   | •   | •  |  | •  |   | •   | •  |
| Concrete, 6 months old  | •  |   | •   | •  |  | •  | •   | •   | •  |
| Critical substrates (chipboards, timber flooring, cracked screeds)                | Installation of the BOTAMENT®-Decoupling System                                |   |   |  |  | • <sup>2)</sup>  |   |   |  |
| Metal   | Please contact our department Application Technology. (Telefon 02041/10 19-32) |   |   |  |  |  |   |   |  |

1) Substitute 1/3 of the mixing water with the bonding emulsion BOTAMENT® D 10.

2) Please contact the department Application Technology.

3) Only suitable for interior areas.

4) Up to 5 mm



## Product Overview

# Tile and natural stone adhesives

- Suitable
- Strongly recommended

| Substrate   | Tile and                            |                                      |                                       |                             |                             |
|---|-------------------------------------|--------------------------------------|---------------------------------------|-----------------------------|-----------------------------|
|  | <b>MULTISTAR®</b><br>CZ, TE 51 / S2 | <b>MULTISTONE®</b><br>CZ, FT 51 / S2 | <b>BOTAMENT® M 10 Speed</b><br>CZ, FT | <b>BOTAMENT® M 12 Stone</b> | <b>BOTAMENT® M 13 Stone</b> |
| <b>Slabs</b>  |                                     |                                      |                                       |                             |                             |
| non-vitreous stoneware  | •                                   | •                                    | •                                     |                             |                             |
| Vitreous stoneware, unglazed, up to 15 x 15 cm                                    | •                                   | •                                    | •                                     |                             |                             |
| Vitreous stoneware, large sizes   | •                                   | •                                    | •                                     |                             |                             |
| Vitreous stoneware tiles, glazed, e.g. 6 x 24 cm                                  | •                                   | •                                    | •                                     |                             |                             |
| Porcelain stoneware   | •                                   | •                                    | •                                     |                             |                             |
| Porcelain stoneware, polished   | •                                   | •                                    | •                                     |                             |                             |
| Artificial stone slabs, terrazzo slabs  | •                                   | •                                    | •                                     |                             | •                           |
| Mosaic made from glass  | •                                   | •                                    | • <sup>1)</sup>                       |                             |                             |
| Mosaic made from ceramic  | •                                   | •                                    | •                                     |                             |                             |
| Synthetic resin tiles (e.g. Object Stone)   |                                     | • <sup>2)</sup>                      | • <sup>2)</sup>                       |                             |                             |
| Clinker, split tiles, border tiles, glazed  | •                                   | •                                    | •                                     |                             |                             |
| Heavy clay, large size (hand-made)  | •                                   | •                                    | •                                     |                             |                             |
| Cotto tiles (after pre-treatment according to manufacturer's instructions)        | •                                   | •                                    | •                                     |                             |                             |
| Glass tiles <sup>2)</sup>   |                                     | • <sup>1)</sup>                      |                                       |                             |                             |
| <b>Natural stones<sup>3)</sup></b>  |                                     |                                      |                                       |                             |                             |
| Marble, calibrated  |                                     | •                                    |                                       | •                           | •                           |
| Marble, uncalibrated  |                                     | •                                    |                                       |                             | •                           |
| Granite, calibrated   |                                     | •                                    | •                                     | •                           | •                           |
| Granite, uncalibrated   |                                     | •                                    |                                       |                             | •                           |
| Solnhofen tiles, calibrated   |                                     | •                                    |                                       | •                           | •                           |
| Solnhofen tiles, uncalibrated   |                                     | •                                    |                                       |                             | •                           |
| Slate tiles, calibrated   |                                     | •                                    |                                       |                             | • <sup>1)</sup>             |
| Slate tiles, uncalibrated   |                                     | •                                    |                                       |                             | • <sup>1)</sup>             |

1) Substitute 1/3 of the mixing water with the bonding emulsion BOTAMENT® D 10.

2) Please contact the dept. Application Technology.

3) We recommend a test bonding and jointing prior to application.

natural stone adhesive

| <b>BOTAMENT® M 21 Classic</b><br>CZ, TE | <b>BOTAMENT® M 24</b><br>CZ, FT | <b>BOTAMENT® M 22 HP</b><br>Premium Flexible Adhesive<br>thin-bed/ medium-bed<br>CZ, TE, S1 | <b>BOTAMENT® M 29 HP</b><br>Premium Flexible Floor Adhesive<br>CZ, TE, S1 | <b>BOTAMENT® EK 500<sup>EF 500</sup></b><br>RZ, TE | <b>BOTAMENT® TK 150</b> |
|---|---------------------------------|---|---|--|-------------------------|
|   |                                 |   |   |  |                         |
| •                                       | •                               | •   | •   | •  |                         |
| •                                       | •                               | •   | •   | •  | •                       |
| •                                       | •                               | •   | •   | •  | •                       |
| •                                       | •                               | •   | •   | •  |                         |
| •                                       | •                               | •   | •   | •  | •                       |
| •                                       | •                               | •   | •   | •  |                         |
| •                                       | •                               | •   | •   | •  |                         |
| •1)                                     |                                 | •   | •   | •  |                         |
| •                                       | •                               | •   | •   | •  |                         |
|   |                                 |   | •2)   | •  |                         |
| •                                       | •                               | •   | •   | •  | •                       |
| •                                       | •                               | •   | •   |  |                         |
|   |                                 |   | •   |  |                         |
|   |                                 |   |   | •  |                         |
|   |                                 |   |   |  |                         |
|   |                                 |   |   |  |                         |
|   |                                 |   |   |  |                         |
|   |                                 |   |   |  |                         |
|   |                                 |   |   |  |                         |
|   |                                 |   | •2)   |  |                         |
|   |                                 |   |   |  |                         |
|   |                                 |   |   |  |                         |
|   |                                 |   |   |  |                         |
|   |                                 |   | •1)   |  |                         |
|   |                                 |   |   |  |                         |

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. For further technical details please see our technical data sheets at [www.botament.com](http://www.botament.com).

## Product Overview

# Joint mortar for tiles and boards

- Suitable
- Strongly recommended

| Substrate   | Joint mortar  |  |   |  |  |   |
|---|---|--|---|--|--|---|
|  | <b>MULTIFUGE®Base</b><br>Multi-purpose grout<br>3–30 mm | <b>MULTIFUGE®Fine</b><br>Multi-purpose grout<br>Up to 7 mm | <b>MULTIFUGE®FinesSpeed</b><br>Multi-purpose grout<br>Up to 10 mm | <b>SUPAX® M 32</b><br>Coloured joint, up to 5 mm | <b>BOTAMENT® CF 200</b><br>Special grout 2C<br>2–20 mm | <b>BOTAMENT® EK 500/EF 500</b><br>Epoxy resin joint and adhesive<br>mortar 2C |
| <b>Platten</b>  |   |  |   |  |  |   |
| non-vitreous stoneware  | •   | •  | •   | •  | •  | •   |
| Vitreous stoneware, unglazed, up to 15 x 15 cm                                    | •   | •  | •   | •  | •  | •   |
| Vitreous stoneware, large sizes   | •   | •  | •   | •  | •  | •   |
| Vitreous stoneware tiles, glazed, e.g. 6 x 24 cm                                  | •   |  |   |  | •  |   |
| Porcelain stoneware   | •   | •  | •   |  | •  | •   |
| Porcelain stoneware, polished   | •   | •  | •   |  |  | •   |
| Artificial stone slabs, terrazzo slabs  | •   |  |   |  |  |   |
| Mosaic made from glass  |   | •  | •   |  | •  | •   |
| Mosaic made from ceramic  | •   | •  | •   | •  | •  | •   |
| Synthetic resin tiles (e.g. Object Stone)   |   | •  | •   |  |  | •   |
| Clinker, split tiles, border tiles, glazed  | •   |  |   |  | •  | •   |
| Heavy clay, large size (hand-made)  | •   |  |   |  | •  |   |
| Cotto tiles (after pre-treatment according to manufacturer's instructions)        | •   |  |   |  |  |   |
| Glass building stones   | •   |  |   |  | •  |   |
| Glass tiles   |   | •  | •   |  |  | •   |
| <b>Natural stones<sup>1)</sup></b>  |   |  |   |  |  |   |
| Marble  |   | •  | •   |  |  |   |
| Granite   | •   | •  | •   |  |  |   |
| Solnhofen tiles, calibrated   | •   | •  | •   |  |  |   |
| Slate tiles   | •   | •  | •   |  |  |   |
| Natural stone mosaics   | •   | •  | •   |  |  |   |

1) We recommend carrying out a test bonding and test jointing first.

# Mortars for fitting natural stones

|  |                         |           |           | Natural stone fitting mortar / adhesive                         |   |  |
|--|-------------------------|-----------|-----------|---|---|--|
| Stones in accordance with DIN EN 12440 | Trade names             | Soft rock | Hard rock | MULTISTONE®<br>Multi-functional Tile and Natural Stone Adhesive | BOTAMENT® M 12 Stone<br>Natural stone mortar thin-bed/<br>pourable bed method | BOTAMENT® M 13 Stone<br>Natural stone mortar medium-bed/<br>thick-bed method |
| Diorite                                | „Fürstensteiner“        |           | ✓         | ✓   | ✓   | ✓  |
| Dolomite                               | „Kleinziegenfelder“     |           | ✓         | ✓   | ✓   | ✓  |
| Gabbro                                 | „Nero Impala“           |           | ✓         | ✓   | ✓   | ✓  |
|  | „Star Galaxy“           |           | ✓         | ✓   | ✓   | ✓  |
| Gneiss                                 | „Giallo Veneziano“      |           | ✓         | ✓   | ✓   | ✓  |
|  | „Imperial White“        |           | ✓         | ✓   | ✓   | ✓  |
| Granite                                | „Azul Platino“          |           | ✓         | ✓   | ✓   | ✓  |
|  | „Balmoral“              |           | ✓         | ✓   | ✓   | ✓  |
|  | „Baltic Red“            |           | ✓         | ✓   | ✓   | ✓  |
|  | „Bethel White“          |           | ✓         | ✓   | ✓   | ✓  |
|  | „Bianco Sardo“          |           | ✓         | ✓   | ✓   | ✓  |
|  | „Blanco Cristal“        |           | ✓         | ✓   | ✓   | ✓  |
|  | „Padang“                |           | ✓         | ✓   | ✓   | ✓  |
|  | „Rosa Beta“             |           | ✓         | ✓   | ✓   | ✓  |
| Granulite                              | „Kashmir White“         |           | ✓         | ✓   | ✓   | ✓  |
| Limestone                              | „Breccia Sarda“         | ✓         |           | ✓   | ✓   | ✓  |
|  | „Juramarmor“            | ✓         |           | ✓   | ✓   | ✓  |
|  | „Solnhofener“           | ✓         |           | ✓   | ✓   | ✓  |
| Marble                                 | „Arabescato di Carrara“ | ✓         |           | ✓   | ✓   |  |
|  | „Estremoz“              | ✓         |           | ✓   | ✓   |  |
| Migmatite                              | „Paradiso Bash“         |           | ✓         | ✓   | ✓   | ✓  |
| Syenite                                | „Blue Pearl“            |           | ✓         | ✓   | ✓   | ✓  |
| Travertine                             | „Bad Cannstatt“         | ✓         |           | ✓   | ✓   | ✓  |
|  | „Bad Langensalza“       | ✓         |           | ✓   | ✓   | ✓  |

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. So as to achieve optimal results, we recommend conducting a site-specific test sample prior to application. If the substrate is made of gypsum-containing material, the respective manufacturer's guidelines must be observed.

For any kind of load scenario and requirement

# The correct waterproofing system



| Type of loading  | High loads<br>(building authority approvals application areas)                                     |  |   | Moderate loads<br>(areas not subject to building authority approvals application) |  |
|--|--|--|---|---|--|
|  | A  | B  | C   | A0  | BO   |
|  | High loads due to non-pressing water in interior areas   | High loads from permanently pressing water in interior and exterior areas              | High loads from non-pressing water with additional chemical loads in interior areas                       | Moderate loads from non-pressing water in interior areas                          | Moderate loads from non-pressing water in exterior areas         |
| Waterproofing  | <b>Examples</b><br>• Showers in public swimming pools, commercial operations and sports facilities | <b>Examples</b><br>• Swimming pools<br>• Water tanks<br>• Drinking water storage tanks | <b>Examples</b><br>• Industrial kitchens<br>• Car wash facilities<br>• Production halls<br>• Laboratories | <b>Examples</b><br>• Domestic bathrooms<br>• Hotel bathrooms                      | <b>Examples</b><br>• Terraces and balconies above unheated areas |
| <b>BOTAMENT® DF 9</b><br>can be applied by trowel or rolled on - Sealing Paste | ●<br>(only for wall surfaces)  |  |   | ●   |  |
| <b>BOTAMENT® MD 1 SPEED</b><br>Flexible Sealing Slurry 1C                      | ●  |  |   | ●   | ●  |
| <b>BOTAMENT® MD 2 THE BLUE 1</b><br>Special sealant 2K                         | ●  | ●  |   | ●   | ●  |
| <b>BOTAMENT® AE</b><br>Sealing and Decoupling Membrane                         | ●  |  | ●   | ●   | ●  |
| <b>BOTAMENT® RA 170</b><br>Reaction Resin Sealant 2C                           | ●  | ●  | ●   | ●   | ●  |

In areas of high loading it is mandatory to install a damp-proof /waterproofing system with building authority approval certification (abP) or with an EU technical certification (ETA). In moderately loaded areas damp-proof/waterproofing systems with abP or ETA are recommended. All BOTAMENT® waterproofing products named above have been tested coupled with BOTAMENT® SB 78 Sealing Tape as a waterproofing system.



All information contained in this brochure is based on the experiences and knowledge gained over many years and is given to the best of our knowledge. It is, however, non-binding and must always be adapted to suit the respective building project and particular onsite conditions. To this end the latest valid technical datasheets apply, which you can download from our website: [www.botament.com](http://www.botament.com). (Correct as of Sept. 2014)

# Regulations to be observed

## Substrate levelling

|                     |  |
|---------------------|--|
| <b>DIN 18352</b>    | tile laying works  |
| <b>DIN 1045</b>     | Structures made from concrete, reinforced concrete and pre-stressed concrete |
| <b>DIN 18157</b>    | Application of ceramic tiling using the thin-bed method                      |
| <b>DIN 55928</b>    | Corrosion protection of steel structures parts 4 and 6                       |
| <b>DIN EN 13813</b> | Screed mortars and materials - properties and requirements                   |
| <b>DIN EN 998</b>   | Requirements on mortar for masonry   |

## Metal, wood, polymers and polyester

|                       |  |
|-----------------------|--|
| <b>DIN EN 206</b>     | Beton  |
| <b>DIN EN 12004</b>   | Mortars and adhesives for tiles – requirements, evaluation of conformity, classification and designation |
| <b>DIN 18202</b>      | permissible tolerances in building construction  |
| <b>DIN 18352</b>      | tile laying works  |
| <b>DIN 18157</b>      | Application of ceramic tiling using the thin-bed method  |
| <b>DIN 18560</b>      | screeds in building construction   |
| <b>DIN 18354</b>      | Asphalt flooring works   |
| <b>ZDB Datasheet:</b> | Expansion joints in claddings and covers made of tiles and slabs   |
| <b>BEB Datasheet:</b> | Evaluation and preparation of substrates   |
| <b>DIN EN 13813</b>   | Screed mortars and materials - properties and requirements   |

## Plasterboard, dry screeds, fibre cement boards & building boards

|                       |  |
|-----------------------|--|
| <b>DIN EN 12004</b>   | Mortars and adhesives for tiles – requirements, evaluation of conformity, classification and designation |
| <b>DIN 18202</b>      | permissible tolerances in building construction  |
| <b>DIN 18352</b>      | tile laying works  |
| <b>DIN 18157</b>      | Application of ceramic tiling using the thin-bed method  |
| <b>ZDB Datasheet:</b> | Expansion joints in claddings and covers made of tiles and slabs   |
| <b>DIN 18183</b>      | Assembled walls made from gypsum board   |
| <b>DIN 4103</b>       | Internal non-load-bearing partitions   |

## Exposed brickwork

|                     |  |
|---------------------|--|
| <b>DIN EN 12004</b> | Mortars and adhesives for tiles – requirements, evaluation of conformity, classification and designation |
| <b>DIN 18202</b>    | permissible tolerances in building construction  |
| <b>DIN 18352</b>    | tile laying works  |
| <b>DIN 18157</b>    | Application of ceramic tiling using the thin-bed method  |

## Heated and unheated surfaces

|                          |  |
|--------------------------|--|
| <b>DIN EN 12004</b>      | Mortars and adhesives for tiles – requirements, evaluation of conformity, classification and designation   |
| <b>DIN 18202</b>         | permissible tolerances in building construction  |
| <b>DIN 18352</b>         | tile laying works  |
| <b>DIN 18157</b>         | Application of ceramic tiling using the thin-bed method  |
| <b>DIN EN 13813</b>      | Screed mortars and materials - properties and requirements   |
| <b>DIN 18560</b>         | Screeds in building construction   |
| <b>ZDB Datasheet</b>     | Expansion joints in claddings and covers made of tiles and slabs   |
| <b>ZDB Datasheet</b>     | Ceramic tiles and slabs, natural stones and artificial stones on cement-based floor structures with insulation layers  |
| <b>ZDB Datasheet</b>     | Ceramic tiles and slabs, natural and artificial stone on calcium-sulphate based screeds  |
| <b>ZDB Datasheet</b>     | Cement-based heating screeds   |
| <b>Trade information</b> | Trade information from the association for bathrooms, heating, and air conditioning "Zentralverbandes Sanitär, Heizung, Klima": Cut surface coordination in heated screed construction |
| <b>BEB Datasheet</b>     | Evaluation and preparation of substrates   |

## Residual existing old covers, coatings, old tiles & paints

|                     |  |
|---------------------|--|
| <b>DIN EN 12004</b> | Mortars and adhesives for tiles – requirements, evaluation of conformity, classification and designation |
| <b>DIN 18202</b>    | permissible tolerances in building construction  |
| <b>DIN 18352</b>    | tile laying works  |
| <b>DIN 18157</b>    | Application of ceramic tiling using the thin-bed method  |
| <b>DIN 18560</b>    | Screeds in building construction   |

Note: The list of the observed rule works does not claim to be exhaustive.

## Critical and cracked substrates

### Sound attenuation on critical substrates

|               |  |
|---------------|--|
| DIN EN 12004  | Mortars and adhesives for tiles – requirements, evaluation of conformity, classification and designation |
| DIN 18202     | permissible tolerances in building construction  |
| DIN 18352     | tile laying works  |
| DIN 18157     | Application of ceramic tiling using the thin-bed method  |
| ZDB Datasheet | Expansion joints in claddings and covers made of tiles and slabs   |
| DIN 4102      | Structural engineering standard  |

## Liquid tanking and sealing membranes for showers and baths

|               |   |
|---------------|---|
| DIN 18202     | permissible tolerances in building construction   |
| DIN 18352     | tile laying works   |
| DIN 1045      | Structures made from concrete, reinforced concrete and pre-stressed concrete  |
| DIN 18157     | Application of ceramic tiling using the thin-bed method   |
| DIN 18195     | Part 5 Building waterproofing – sealing against non-pressing water on ceilings and in wetrooms, measuring and execution |
| ZDB Datasheet | Expansion joints in claddings and covers made of tiles and slabs  |
| DIBt          | Building Rules List Parts A to C  |
| ZDB Datasheet | Execution of damp—proofing/waterproofing for tiles, slabs, mosaic claddings or floor coverings                          |

## Terraces and balconies

|              |   |
|--------------|---|
| DIN EN 12004 | Mortars and adhesives for tiles – requirements, evaluation of conformity, classification and designation                |
| DIN 18202    | permissible tolerances in building construction   |
| DIN 18352    | tile laying works   |
| DIN 1045     | Structures made from concrete, reinforced concrete and pre-stressed concrete  |
| DIN 18157    | Application of ceramic tiling using the thin-bed method   |
| DIN 18195    | Part 5 Building waterproofing – sealing against non-pressing water on ceilings and in wetrooms, measuring and execution |

ZDB Datasheet Expansion joints in claddings and covers made of tiles and slabs

ZDB Datasheet Execution of damp—proofing/waterproofing for tiles, slabs, mosaic claddings or floor coverings

ZDB Datasheet Floor covering construction outside of buildings

DIBt Building Rules List Parts A to C

## Swimming pools and industrial kitchens

|               |  |
|---------------|--|
| DIN 18202     | permissible tolerances in building construction  |
| DIN 18352     | tile laying works  |
| DIN 1045      | Structures made from concrete, reinforced concrete and pre-stressed concrete   |
| DIN 18157     | Application of ceramic tiling using the thin-bed method  |
| DIN 18195     | Parts 5 + 7 Building waterproofing – sealing against non-pressing water on ceilings and in wetrooms, measuring and execution |
| ZDB Datasheet | Expansion joints in claddings and covers made of tiles and slabs   |
| DIBt          | Building Rules List Parts A to C   |
| ZDB Datasheet | Execution of damp—proofing/waterproofing for tiles, slabs, mosaic claddings or floor coverings                               |
| KOK           | Regulations  |

## Laboratory – Conductive Floor Coverings

|             |  |
|-------------|--|
| DIN 18202   | permissible tolerances in building construction                              |
| DIN 18352   | tile laying works  |
| DIN 1045    | Structures made from concrete, reinforced concrete and pre-stressed concrete |
| DIN 18157   | Application of ceramic tiling using the thin-bed method                      |
| AGI         | Worksheets pp. 10 – 40   |
| DIN EN 1081 | Electrically conductive  |



Your BOTAMENT® retail specialist



# **BOTAMENT**®

**SYSTEMBAUSTOFFE** ■■■

Am Kruppwald 1  
D-46238 Bottrop

Tel. +49 (20 41) 10 19-0  
Fax +49 (20 41) 26 24 13

info@botament.de  
www.botament.com

Killycard  
Castlebayney Co. Monaghan

Tel. +353 (42) 9 75 15 20  
Fax +353 (42) 9 74 62 22

www.botament.com