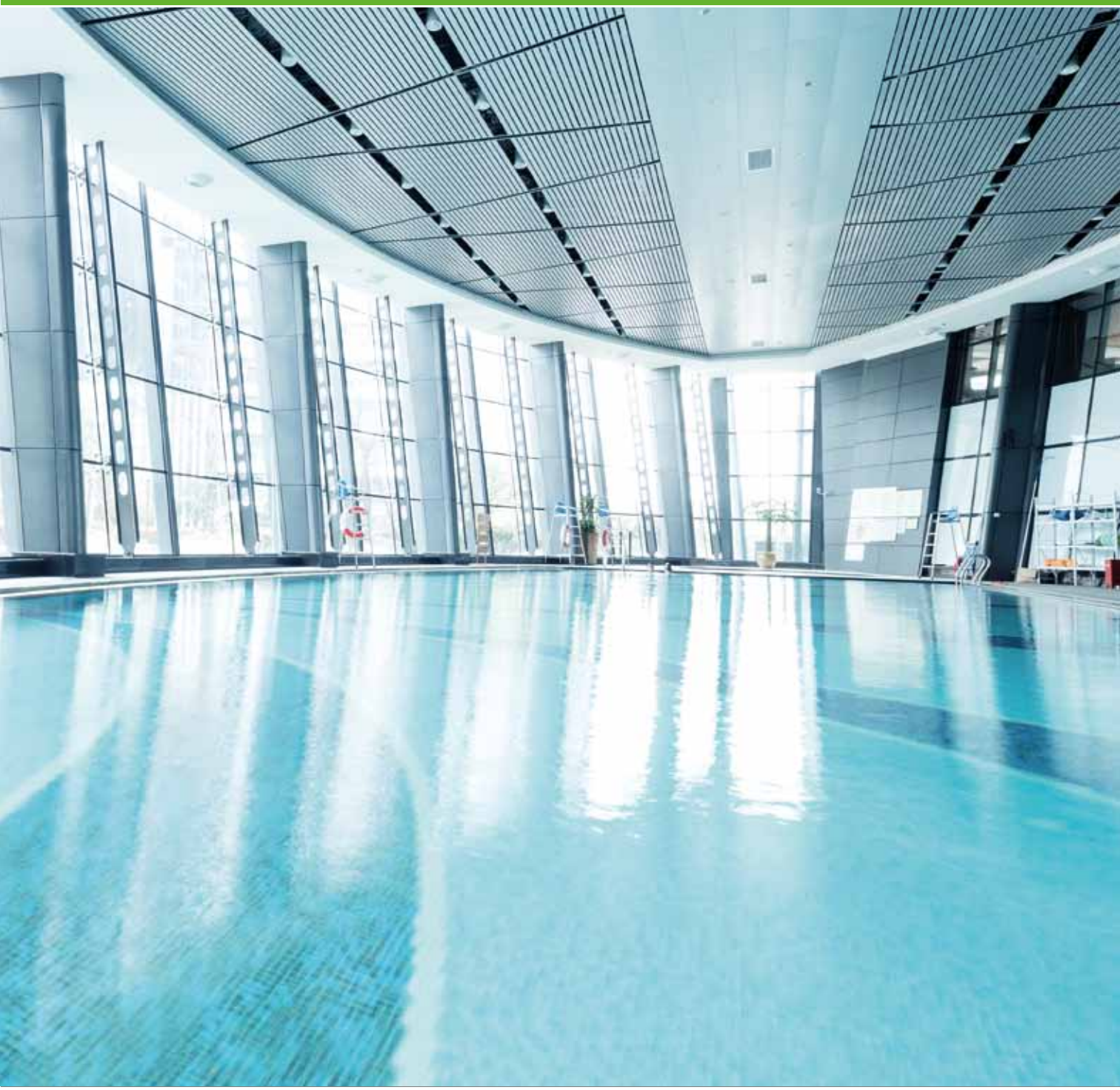


Tiling systems for industrial, commercial & residential construction

Specialist systems for professional tilers

www.botament.com

BOTAMENT®
SYSTEMBAUSTOFFE

Expert Building Materials

Tiling Wet Spaces

Spas, Pools and Bathrooms

- Public Showers 6 - 7
- Swimming Pools 8 - 9
- Spas (Wellness Facilities) 10 - 11

Industry

- Industrial Kitchens 12 - 13
- Food & Drinks Industry 14 - 15
- Car Wash Plants 16 - 17

- Application Details - Wet Spaces 18 - 23

Tiling Requiring High Mechanical Strength

- Factories and Warehouses 24 - 25

Electrically Conductive Tiling

- Work Areas With Electrically Conductive Tiling 26 - 27
- Application Details Electrically Conductive Tiling 28 - 29

- Regulations 30 - 31

The information provided here as product description 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. To achieve optimal results we recommend carrying out a site-specific test application first. In any case, the generally accepted technical rules must be adhered to.

Tiling for industry and commerce. A job for professional tilers alone!

Tile fitting in industrial kitchens, swimming pools, production halls and other specialist areas not only demand the highest level of professional skill, fitters also have to have detailed expert know how of all applicable requirements and statutory guidelines valid at the time of fitting.

As experienced partner in industrial, commercial and residential construction, Botament assists planners, specialist retailers and trades as competent advisor in complex construction projects, from the planning phase right through to execution on site.

Our effective and easy to understand product programme, consisting of components that have been developed to build harmonised systems, offer our customers the highest level of application security, together with the highest degree of flexibility - all thanks to materials that are easy to handle and apply.

In addition to traditional reaction resins for industrial, commercial and residential construction, we also offer a wide range of alternative mineral products, specially designed to fit the special conditions of respective projects.

This brochure gives you a host of practical examples, showcasing typical application areas and providing a wealth of helpful tips.

From professionals for professionals.

Tiling Wet Spaces

The principle rule is:
Any area, which in accordance with its intended purpose, is subject to moderate to high moisture impact, must be made waterproof. Protecting structures against moisture penetration is enshrined in all regional building regulations and is governed in the current domestic and European standards on waterproofing building structures.
A separate regulation governs areas subject to water loading which are covered with tiles and slabs:
The ZDB information sheet "Bonded damp proofing", published by the Zentralverband Deutsches Baugewerbe [the umbrella organisation of the German construction industry].
This data sheet distinguishes between five different load classes, three of which represent high load scenarios (A, B and C) that determine the choice of damp-proofing system in commercial or industrial projects.
To damp-proof high load areas only systems that have been approved by the building authority for the respective load class are permissible. Furthermore, a waterproofing system on a liquid basis must always consist of the waterproofing material plus sealant tapes and accessories (interior and exterior corners and sealing collars) as tested and approved as a holistic damp-proofing system.

Where sealing membranes are concerned, the system components required to fit the membrane and to bond the edges, must also be taken into consideration.
Liquid damp proofing must generally be applied in two layers, each of which must be fully cured before the next working step can commence.

The finished waterproofing must have reached the minimum dry layer thickness appropriate for the material applied within any point of the application layer.
Advantage of membrane waterproofing:
Here the necessary layer thickness is already pre-determined by the thickness of the membrane.
A new range of standards governing building structure damp proofing is currently under preparation, which is to update the waterproofing of interior areas, including the matter of bonded waterproofing.

Minimum dry layer thicknesses in accordance with ZDB Information Sheet „Bonded Waterproofing"

Dispersions: 0.5 mm

Polymer-Cement-Mortar-Combinations: 2.0 mm

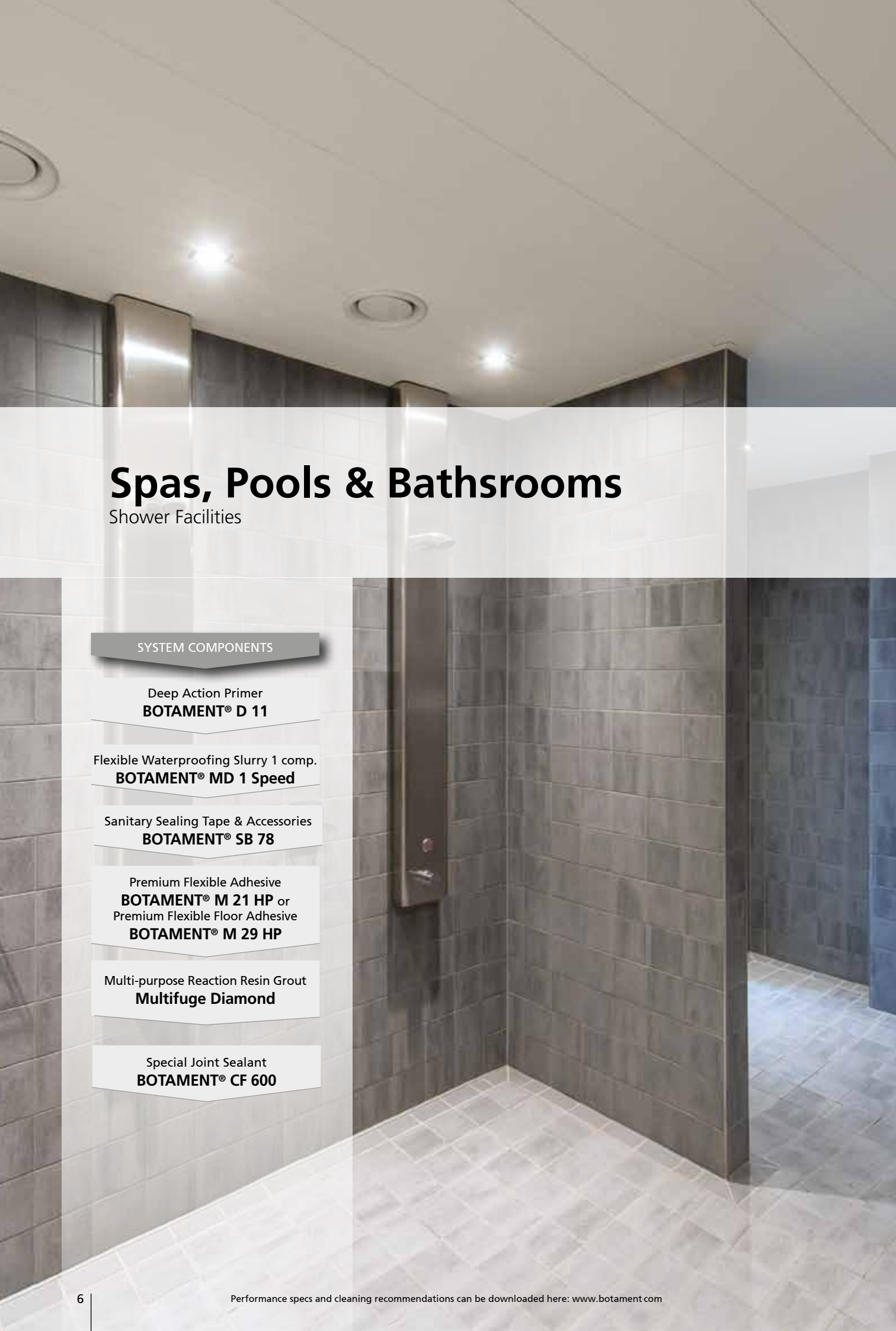
Reaction Resins: 1.0 mm

Load classes	Load scenario	Application example	Waterproofing product
A	Wall and floor areas subjected to high loads from industrial water and cleaning water	Public showers	**BOTAMENT® DF 9** Sealing Membrane* (both roll-on and trowel-on options available)* **BOTAMENT® MD 2 The Blue 1** Special Waterproofing Compound, 2 comp. **BOTAMENT® RA 170** Reaction-Resin Waterproofing Compound, 2 comp. **BOTAMENT® MD 1 Speed** Flexible Waterproofing Slurry, 2 comp. **BOTAMENT® AE** Sealant & Decoupling Membrane
B	Wall and floor areas in swimming pools in interior and exterior areas (with pressing water from the inside)	Wall and floor areas in swimming pools	**BOTAMENT® MD 2 The Blue 1 Special Waterproofing, 2 comp.** **BOTAMENT® RA 170** Reaction Resin Sealant, 2 comp.
C	Wall and floor areas under high water load coupled with chemical load in interior areas	Walls and floors in areas with moderate chemical loads (Areas where the German Water Resources Act has to be applied (§ 19 WHG) are exempt)	**BOTAMENT® RA 170** Reaction Resin Sealant, 2 comp. **BOTAMENT® AE S**ealant & Decoupling Membrane

*Only for walls.

Spas, Pools & Bathsrooms

Shower Facilities



SYSTEM COMPONENTS

Deep Action Primer
BOTAMENT® D 11

Flexible Waterproofing Slurry 1 comp.
BOTAMENT® MD 1 Speed

Sanitary Sealing Tape & Accessories
BOTAMENT® SB 78

Premium Flexible Adhesive
BOTAMENT® M 21 HP or
Premium Flexible Floor Adhesive
BOTAMENT® M 29 HP

Multi-purpose Reaction Resin Grout
Multifuge Diamond

Special Joint Sealant
BOTAMENT® CF 600

Performance specs and cleaning recommendations can be downloaded here: www.botament.com

Speedy sealing!
With Botament® AE your job is done much faster than with liquid sealants!

Water - now you see it, now you don't!

Fitting tiles in showers

Especially in areas of use where lots of different details need to be incorporated and where gradients tend to change frequently, single component sealant slurries are the preferred material, since they are easy to apply to such built-in parts. Whether you prefer to paint the slurry on, apply it by trowel or want to machine-spray it on, MD 1 Speed offers you all these application choices, dries rapidly and seals the area perfectly. In addition to second-to-none application properties, substrates can be covered with tiles once the second waterproofing step has been completed, after a mere 4 hours!

BOTAMENT® SB 78 Sanitary Tape and Accessories are embedded into the first waterproofing layer of any mounting/ connection details, such as pipe openings, inside and outside corners, or floor drains and drainage channels.

Prime the walls and floors with BOTAMENT® D 11

Apply the first waterproofing layer of BOTAMENT® MD 1 Speed

Insert the BOTAMENT® SB 78 Sanitary Sealing Tape and Accessories into the fresh waterproofing layer

Apply the second waterproofing layer of BOTAMENT® MD 1 Speed

Lay tiles using M 21 HP.
Then fill the joints in accordance with type of use with Multifuge Diamond.

Spas, Pools and Bathrooms

Swimming Pools

SYSTEM COMPONENTS

Deep Action Primer
BOTAMENT® D 11

Special Waterproofing 2 c
BOTAMENT® MD 2THE BLUE 1

Sanitary Sealing Tape & Accessories
BOTAMENT® SB 78

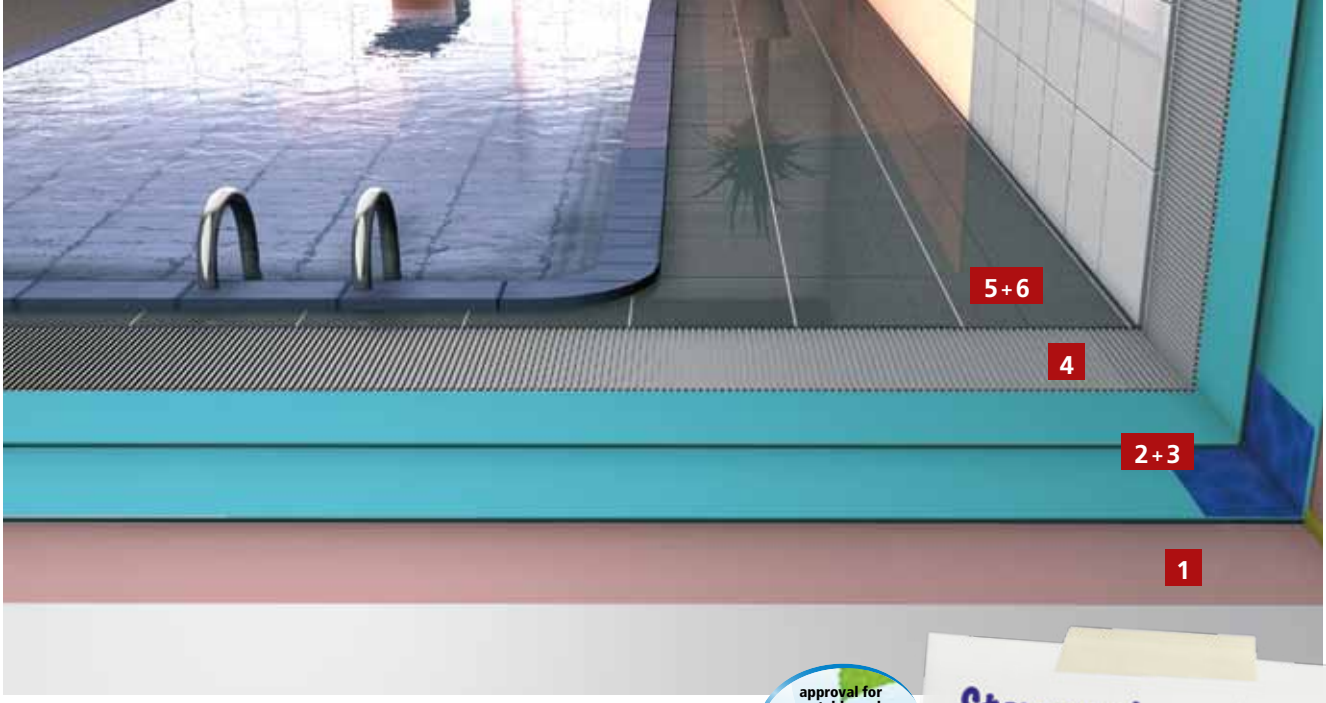
Flexible Superior Adhesive
BOTAMENT® M 21 Classic or
Premium Flexible Floor Adhesive
BOTAMENT® M 29 HP

Epoxy Resin Joint and
Adhesive Mortar 2 c
BOTAMENT® EF 500/EK 500 or
Multi-Purpose Reaction Resin Grout 2c
Multifuge Diamond

Special Joint Sealant
BOTAMENT® CF 600

Approved as a system!

Performance specs and cleaning recommendations can be downloaded here: www.botament.com



approval for potable and swimming pool water

Stay on the safe side!
Reaction resin mortars in swimming pools – totally harmless if you're opting for EF 500/EK 500 or Multifuge Diamond with KTW/KSW approval...!

Going under

Fitting tiles in swimming pools

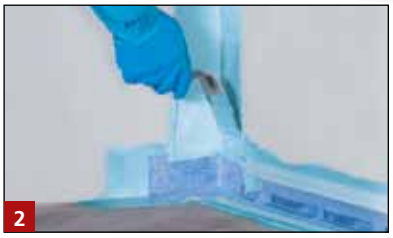
The planning of swimming pools and the subsequent expert workmanship is a highly specialised and challenging affair. In particular the interplay of hydraulic water pressure and constant moisture penetration mean the systems are put under extreme stress.
For the waterproofing of swimming pool basins the rulebooks stipulate using bonded damp-proofing systems consisting of a polymer-mortar combination or reaction resins, which must have the approval from a German building authority for load class B.

The material-specific dry layer thicknesses must be adhered to without fail!
The intensely blue colour of MD 2 The Blue 1 serves as a visual drying aid. A mere 4 hours after completing the second waterproofing layer, the substrate may be tiled.

What's more, the tile fitter has the advantage of an extended processing time, so that even very large areas can easily be tiled without showing any edges. In addition to the traditional trowel application, this waterproofing system can also be sprayed on.

Prepare the substrate using a high-pressure cleaner or by sandblasting!

Prime absorbent substrates with BOTAMENT® D 11



Apply the first waterproofing layer consisting of BOTAMENT® MD 2 The Blue 1 and insert BOTAMENT® SB 78 Sanitary Sealing Tape including all accessories

Apply the second waterproofing layer of BOTAMENT® MD 2 The Blue 1

Apply the flexible superior tile adhesive BOTAMENT® M 21 Classic or the premium flexible floor adhesive M 29 HP

Fit the tiles to walls and floor using the combined method with the adhesives mentioned earlier

Reliable jointing of the tiles using BOTAMENT® EF 500/EK 500 expoxy resin joint and adhesive mortar or Multifuge Diamond for instance

Spas, Pools and Bathrooms

Spas/Wellness

SYSTEM COMPONENTS

Epoxy Resin Primer 2c
BOTAMENT® E 120

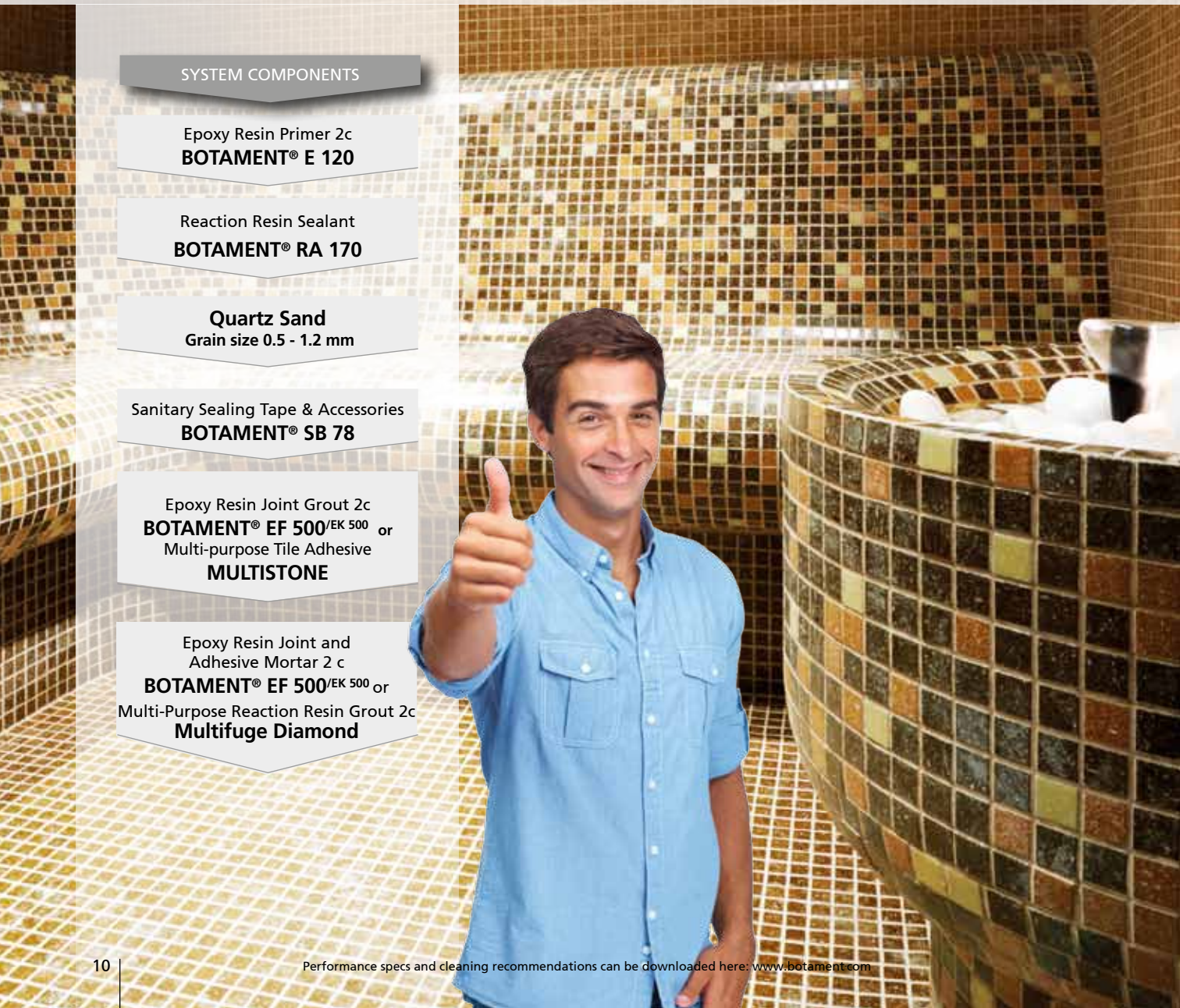
Reaction Resin Sealant
BOTAMENT® RA 170

Quartz Sand
Grain size 0.5 - 1.2 mm

Sanitary Sealing Tape & Accessories
BOTAMENT® SB 78

Epoxy Resin Joint Grout 2c
BOTAMENT® EF 500/EK 500 or
Multi-purpose Tile Adhesive
MULTISTONE

Epoxy Resin Joint and
Adhesive Mortar 2 c
BOTAMENT® EF 500/EK 500 or
Multi-Purpose Reaction Resin Grout 2c
Multifuge Diamond



Performance specs and cleaning recommendations can be downloaded here: www.botament.com

Bespoke designs!
Custom-made furniture for your spa can quickly and easily be produced with BP building panels. You will find lots of design ideas in our building panel brochure!

All steamed up

Fitting tiles in steam rooms, saunas and the like

Wellness spas have become a trend that just won't go away. And today's discerning customer not only looks forward to a broad wellness programme offered in spotless surroundings, but also expects a classy, modern ambience.

Hence, an eye-catching tile design combined with attractive spa furniture is an absolute must for any spa these days. Besides looking the part, the highest level of hygiene is the basis of a successfully run wellness oasis.

However, these areas, which are constantly in contact with water or steam, i.e. a permanent moist environment, are ideal breeding grounds for microorganisms and mould.

BOTAMENT® EF 500/EK 500 Epoxy Resin and Adhesive Mortar has what it takes to master these problems: it's been approved in accordance with the ZDB datasheet "Swimming Pool Construction" and holds a valid KSW/KTW certification from the "Deutschen Gesellschaft für das Badewesen" [German Association for Swimming Pools]. It includes the W 270 test, which gives proof that this product does not promote the formation of microorganisms – unlike standard trade epoxy resin joint mortars.

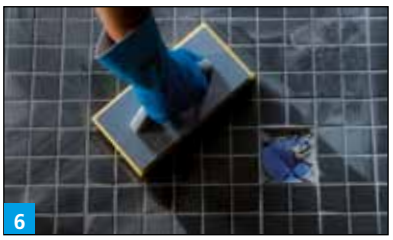
Prime the substrate with BOTAMENT® E 120 Epoxy Resin Primer

Apply the first waterproofing layer of BOTAMENT® RA 170 Reaction Resin Sealant 2c

Apply the second waterproofing layer of BOTAMENT® RA 170 Reaction Resin Sealant 2c

Scatter quartz sand over the second waterproofing layer , grain size 0.5 - 1.2 mm for the tiling that follows in the next step

Lay the mosaic tiles into BOTAMENT® EF 500/EK 500 expoxy resin joint and adhesive mortar 2c or into a bed of MULTISTONE



Fill the joints with EF 500/EK 500 expoxy resin joint and adhesive mortar or with Multifuge Diamond

Industry

Industrial Kitchens

SYSTEM COMPONENTS

Epoxy Resin Primer 2c
BOTAMENT® E 120

Reaction Resin Sealant 2c
BOTAMENT® RA 170 or
BOTAMENT® AE Sealing and Decoupling Membrane

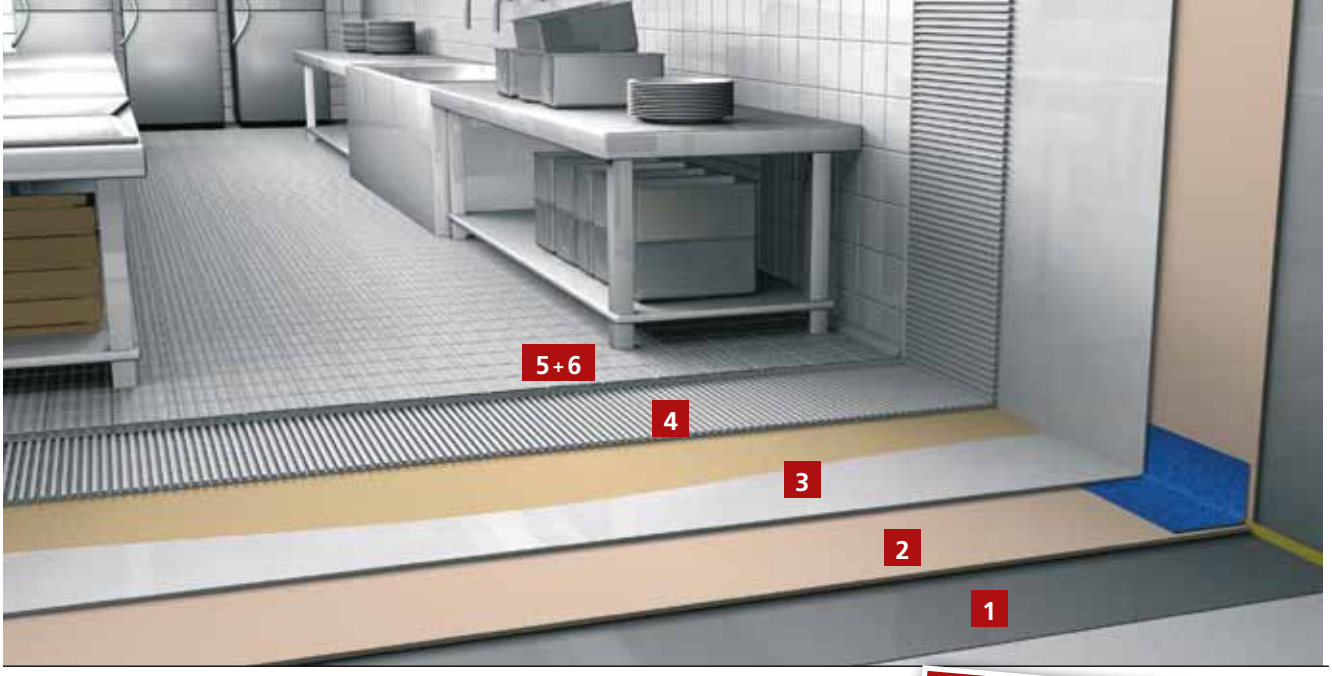
Sanitary Sealing Tape & Accessories
BOTAMENT® SB 78

Flexible Superior Adhesive
BOTAMENT® M 21 Classic or
Premium Flexible Floor Adhesive
BOTAMENT® M 29 HP

Epoxy Resin Joint and Adhesive Mortar 2c
BOTAMENT® EF 500/EK 500 or
Special Joint Mortar 2c
BOTAMENT® CF 200*

Acid-resistant Silicone
BOTAMENT® SF 300

* Please request our cleaning recommendations.



Reliable sealing- fast and simple!
The BOTAMENT® AE Sealing and Decoupling Membrane also has building authority approval for load class C!

Dinner's ready!

Fitting tiles in industrial kitchens

Whether restaurant, university or works canteen – in large kitchens things tend to get a little hot and lively. So it comes as little surprise that the stress on the ceramic floor cover is equally intense. They have to withstand boiling hot water, plenty of grease and oils, and of course, a daily thorough cleaning down. So as to comply with hygiene regulations and to keep all sorts of bacteria and germs in check, industrial kitchen worktops and surfaces must be thoroughly cleaned according to strict cleaning schedules. Highly chemical-resistant reaction resin systems, such as the reaction resin sealant RA 170 and the Epoxy Resin Joint and Adhesive Mortar BOTAMENT® EF 500/EK 500 are perfect for producing extremely hard-wearing floor covers.

As an alternative to the traditional reaction resins, the highly tear-proof AE Sealing and Decoupling Membrane is a time and cost-saving sealant option.

For the jointing BOTAMENT® also has a mineral solution on a silicate basis at hand with its special joint mortar CF 200*. The working method is exactly the same as when using standard cement-based joint mortars, except for CF 200 not being mixed up with water, but with the liquid component that comes with the product pack.

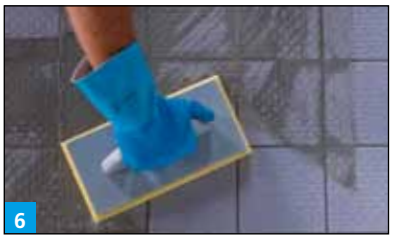
Prime walls and floors with BOTAMENT® E 120. In case of coarsely porous substrates apply a scratch coat made up with BOTAMENT® E 120 first (mixed up with dried quartz sand)

Apply the highly chemical-resistant sealant BOTAMENT® RA 170
Apply two layers of it

Scatter dry quartz sand in to the still fresh second layer of BOTAMENT® RA 170 for the tiling that follows in the next step

Apply the flexible superior tile adhesive BOTAMENT® M 21 Classic or M 29 HP Premium Flexible Floor Adhesive

Insert tiles into the fresh adhesive bed



Fill the joints with BOTAMENT® EF 500/EK 500 or CF 200

*Please observe our cleaning recommendations, which you can find at www.botament.com

Industry

Food & Drinks Industry

SYSTEM COMPONENTS

Deep Primer
BOTAMENT® D 11

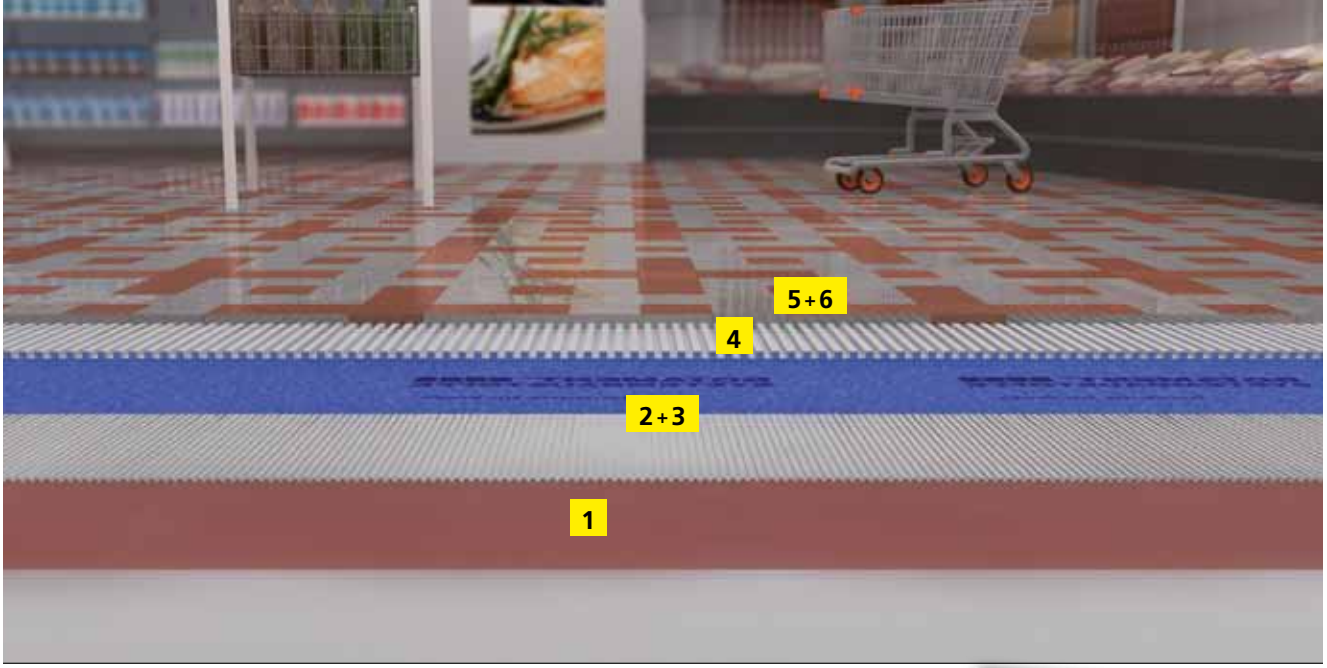
BOTAMENT® AE Sealing and Decoupling Membrane

Sanitary Sealing Tape & Accessories
BOTAMENT® SB 78

Flexible Superior Adhesive
BOTAMENT® M 21 Classic or
Flexible Rapid Adhesive
BOTAMENT® M 10 Speed

Special Joint Mortar 2c
BOTAMENT® CF 200*

* Please request a copy of our cleaning recommendations.



Keep your cool in the cold store - with M 10 Speed Flexible Speed Adhesive
Can be walked on after just 90 minutes - even when it's just + 3 °C!

Here hygiene has top priority

Tiling in foodstuff-processing plants

Breweries, dairy farms, slaughterhouses or ready-meal factories – they all have one thing in common: anywhere that processes cheese, cold meats, pizzas and such like, has to ensure scrupulous cleanliness. All fixtures, as well as floors and walls, which come into contact with foodstuff and raw materials, must constantly be cleaned by both chemical and mechanical means and must be disinfected.

But it's not just the tile that has to be easy to clean, the grouting in the joint is just as important. Here the special joint mortar CF 200* offers the ideal solution: thanks to its alkaline nature it does not provide the living conditions that microorganisms such as mould spores need to thrive. It also means that the time spent on cleaning during running operations is manageable. What's more, CF 200 is very resilient against oxidation agents, which are common ingredients in many disinfectants.

And apart from exemplary hygienic ambient conditions, all perishable food items must be kept in cold stores. When new tiles have to be fitted or when damaged tiles need to be replaced, the tile fitter will have very little time at his disposal to complete the works; to make his life even more difficult, he will additionally also be confronted with cool surface areas and low ambient temperatures. In this scenario M 10 Speed Flexible Adhesive manages to kill two birds with one stone: it achieves reliable adhesion extremely fast and at substrate and ambient temperatures that can be as low as + 3 °C.

Prime the screed with BOTAMENT® D 11 Deep Primer

Bond the BOTAMENT® SB 78 Sanitary Sealant Tape + the inside corner using M 21 Classic Flexible Superior Adhesive or M 10 Speed Flexible Rapid Adhesive

Insert the BOTAMENT® AE Sealant and Decoupling Membrane into the fresh adhesive bed of M 21 Classic Flexible Superior Adhesive or M 10 Speed Flexible Rapid Adhesive

Lay the tiles into a bed of M 21 Classic M 21 Classic Flexible Superior Adhesive or M 10 Speed Flexible Rapid Adhesive

Fill the joints with BOTAMENT® CF 200 Special Joint Mortar

Lightly wash off the tile cover removing any grout residue

*Please observe our cleaning recommendations, which you can find at www.botament.com

Industry

Car Wash Plants

SYSTEM COMPONENTS

Deep Primer
BOTAMENT® D 11

Wall Sealing:
BOTAMENT® AE Sealant and Decoupling Membrane

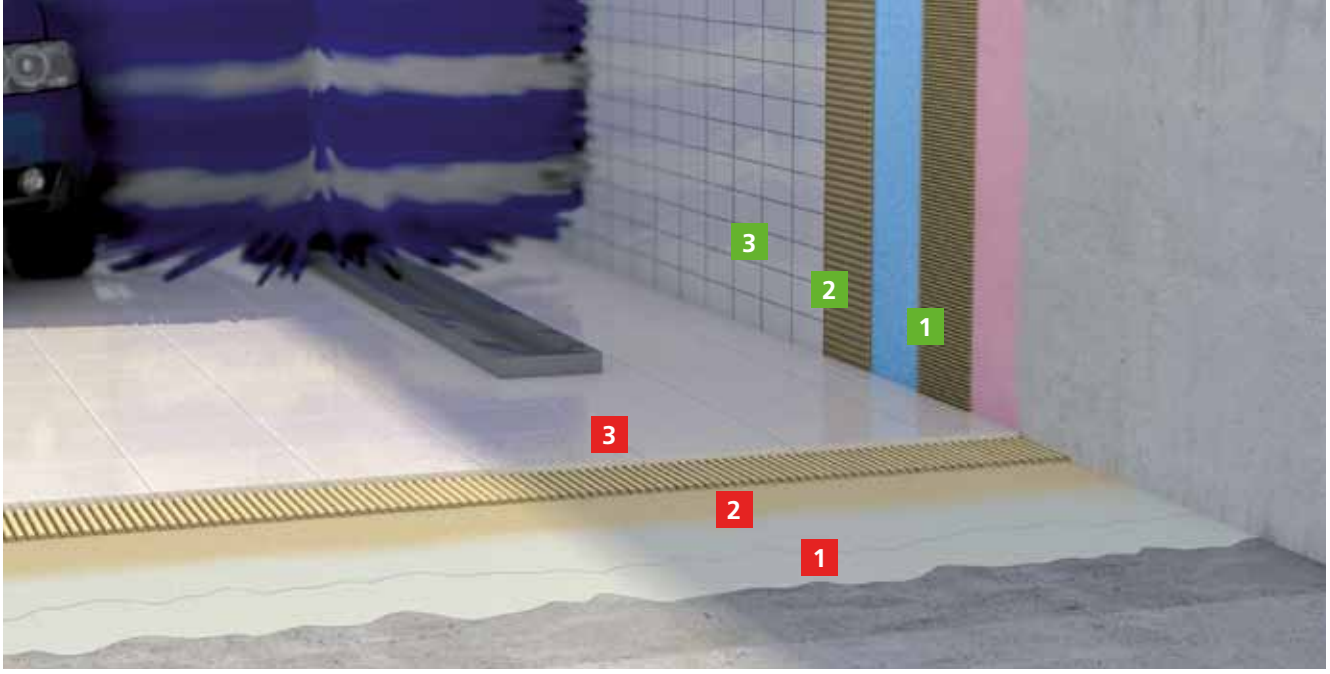
Floor Sealing:
Reaction Resin Sealant
BOTAMENT® RA 170

Sanitary Sealing Tape & Accessories
BOTAMENT® SB 78

Flexible Superior Adhesive
BOTAMENT® M 21 Classic or
Flexible Speed Adhesive
BOTAMENT® M 10 Speed

Special Joint Mortar 2K
BOTAMENT® CF 200* or
Epoxy Resin Joint & Adhesive Mortar 2c **Multifuge Diamond*** for the rim cleaning area

Acid-resistant Silicone
BOTAMENT® SF 300



Car 'wash & pamper' day

Tiling car wash plants

Attention: Acid!
Multifuge Diamond is highly resistant against aggressive rim cleaning substances!

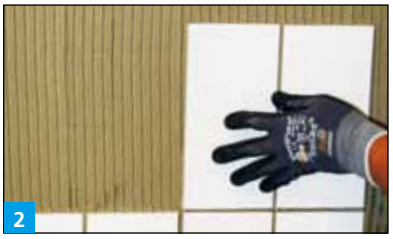
Mild and gentle to the car's paintwork and metal, but taking its toll on the tiled cover: all that's good for your car and make it shine and look as good as new is really taking it out on the ceramic floor tiles! Floors have to withstand not only alkaline cleaning agents such as car wash shampoos, but also the particularly acidic wheel rim cleaners, not to mention the stress from dynamic loads such as vehicles driving over them.

For these reasons waterproofing and tile fitting systems using reactive resins are a must here. So, to seal the floor we recommend using BOTAMENT® RA 170, while Multifuge Diamond does a perfect job in filling the joints. The good news for the professional tile fitter: now he only requires a single product on site for his tiling job, the EF 500/EK 500!

For the walls – which suffer a lot less than the floors – Botament offers a time and cost-saving alternative: the BOTAMENT® AE Sealant and Decoupling Membrane for damp proofing. The wall tiles can then be laid on top, using the mineral adhesives M 21 Classic or M 10 Speed, and the joints are filled using the silicate joint mortar CF 200*. This way all areas are tiled and waterproofed to technical perfection that is cost-effective to boot.

Wall

Fit the BOTAMENT® AE Sealant and Decoupling Membrane to the wall which has been primed with BOTAMENT® D 11



Lay the wall tiles into a bed of M 10 Speed Flexible Speed Adhesive

Grout the wall joints with BOTAMENT® CF 200 Special Joint Mortar

Floor

Apply the first layer of BOTAMENT® RA 170 Reaction Resin Sealant onto the floor primed with BOTAMENT® E 120 and embed the BOTAMENT® SB 78 Sanitary Tape + Interior Corner

Scatter dry quartz sand in to the still fresh second layer of BOTAMENT® RA 170 for the tiling that follows in the next step

Lay the floor tiles into a bed of Flexible Superior Adhesive M 21 Classic or M 10 Speed / grout the floor tiles with Multifuge Diamond

*Please observe our cleaning recommendations, which you can find at www.botament.com

Application Details Wet Spaces

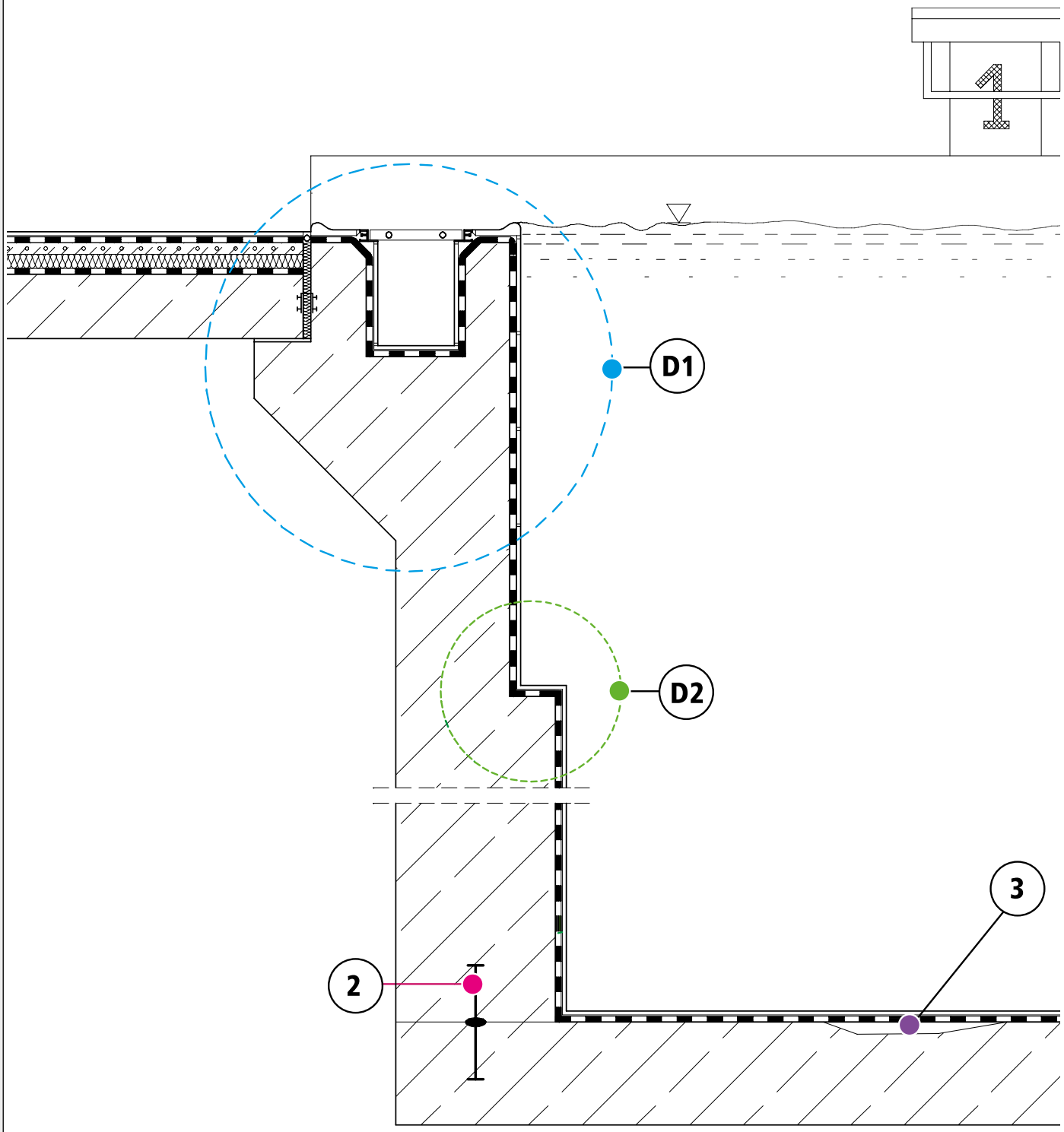
Swimming Pools

D1. Pool bowl (see detail, page 19)

D2. Corner structure (see detail, page 20)

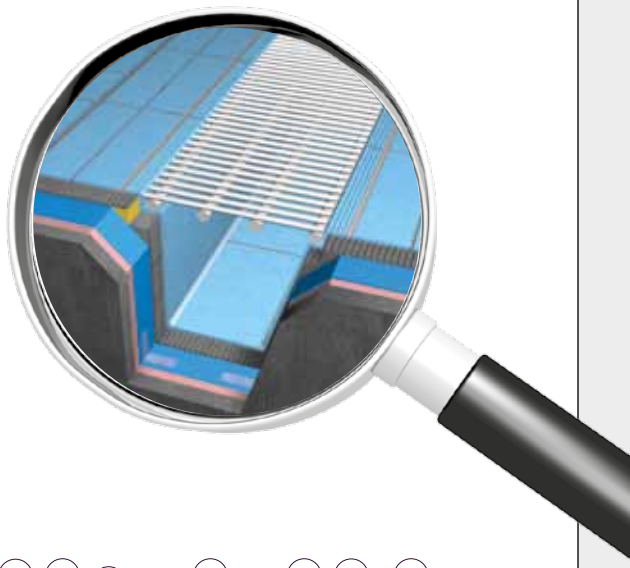
2. Joint tapes in concrete structures

3. Making good any chunking using the multi-purpose mortar **BOTAMENT® M 200**



D1 Pool bowl detail

1. Sanitary sealing tape **BOTAMENT® SB 78** in bonded waterproofing
2. Back filling profile
3. Special flexible joint mortar **BOTAMENT® CF 600**
4. Pool bowl ceramics
5. Finishing profile for the gutter cover
6. Gutter grate
7. Capillary-breaking joint seal made with
   BOTAMENT® E 120 epoxy resin primer 2c
   (made with 1 part mixed with 3 parts of quartz sand)



SYSTEM COMPONENTS

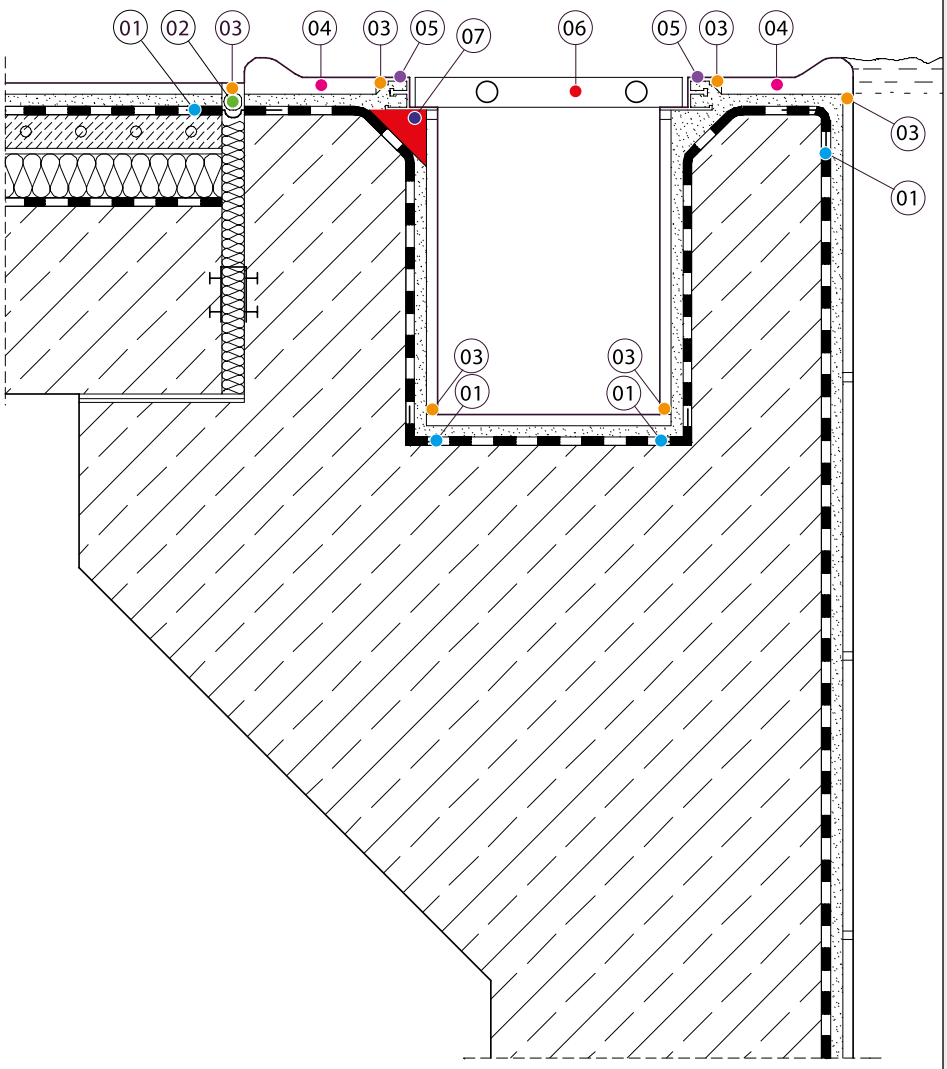
Multi-Mortar
BOTAMENT® M 200

Special Sealant 2c
BOTAMENT® MD 2THE BLUE 1

Flexible Superior Adhesive
BOTAMENT® M 21 Classic or
For high load/stress areas use
Epoxy Resin Joint and
Adhesive Mortar 2 c
BOTAMENT® EF 500/EK 500

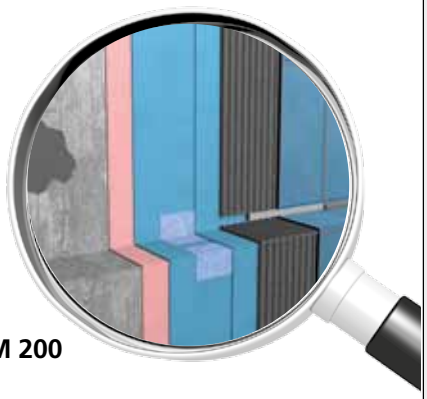
Jointing of the ceramic tiles with
Special Joint Mortar 2c
BOTAMENT® CF 200
For high load/stress areas use
Epoxy Resin Joint and
Adhesive Mortar 2 c
BOTAMENT® EF 500/EK 500 or
Multi-Purpose Reaction Resin Grout 2c
Multifuge Diamond

Special Joint Mortar
BOTAMENT® CF 600

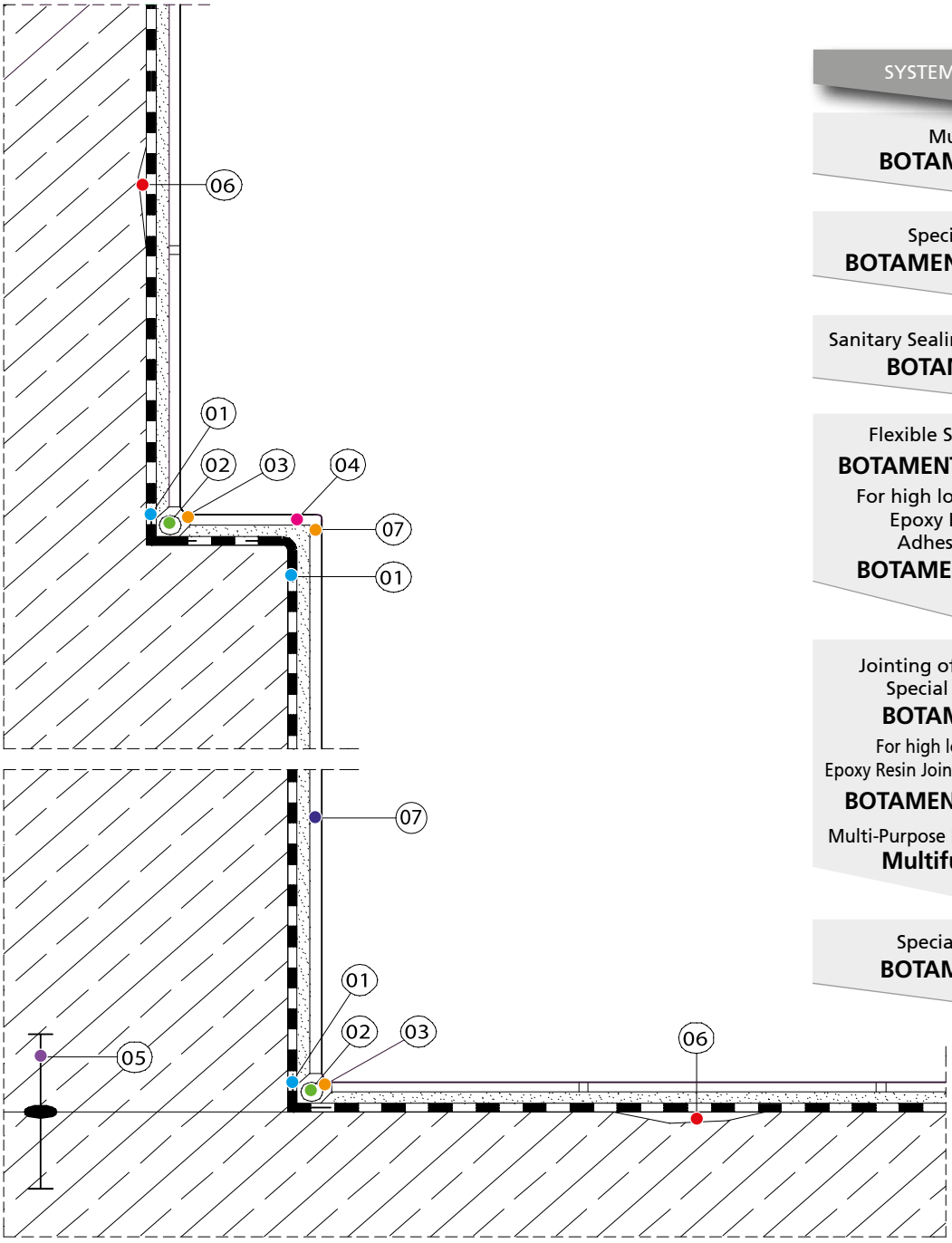


D2 Corner structure detail

It is important to only install flanged drains, skimmers or pool installations of equal quality.



1. Sanitary sealing tape **BOTAMENT® SB 78** in bonded waterproofing
2. Backfilling profile
3. Special flexible joint mortar **BOTAMENT® CF 600**
4. Ceramic tile
5. Joint tape in concrete structure
6. Fill in defects using the levelling multi-purpose mortar **BOTAMENT® M 200**
7. Epoxy resin joint & adhesive mortar 2c **BOTAMENT® EF 500/EK 500**



SYSTEM COMPONENTS

Multi-Mortar
BOTAMENT® M 200

Special Sealant 2c
BOTAMENT® MD 2THE BLUE 1

Sanitary Sealing Tape & Accessories
BOTAMENT® SB 78

Flexible Superior Adhesive
BOTAMENT® M 21 Classic or
For high load/stress areas use
Epoxy Resin Joint and
Adhesive Mortar 2 c
BOTAMENT® EF 500/EK 500

Jointing of ceramic tiles with
Special Joint Mortar 2c
BOTAMENT® CF 200
For high load/stress areas use
Epoxy Resin Joint and Adhesive Mortar 2 c
BOTAMENT® EF 500/EK 500 or
Multi-Purpose Reaction Resin Grout 2c
Multifuge Diamond

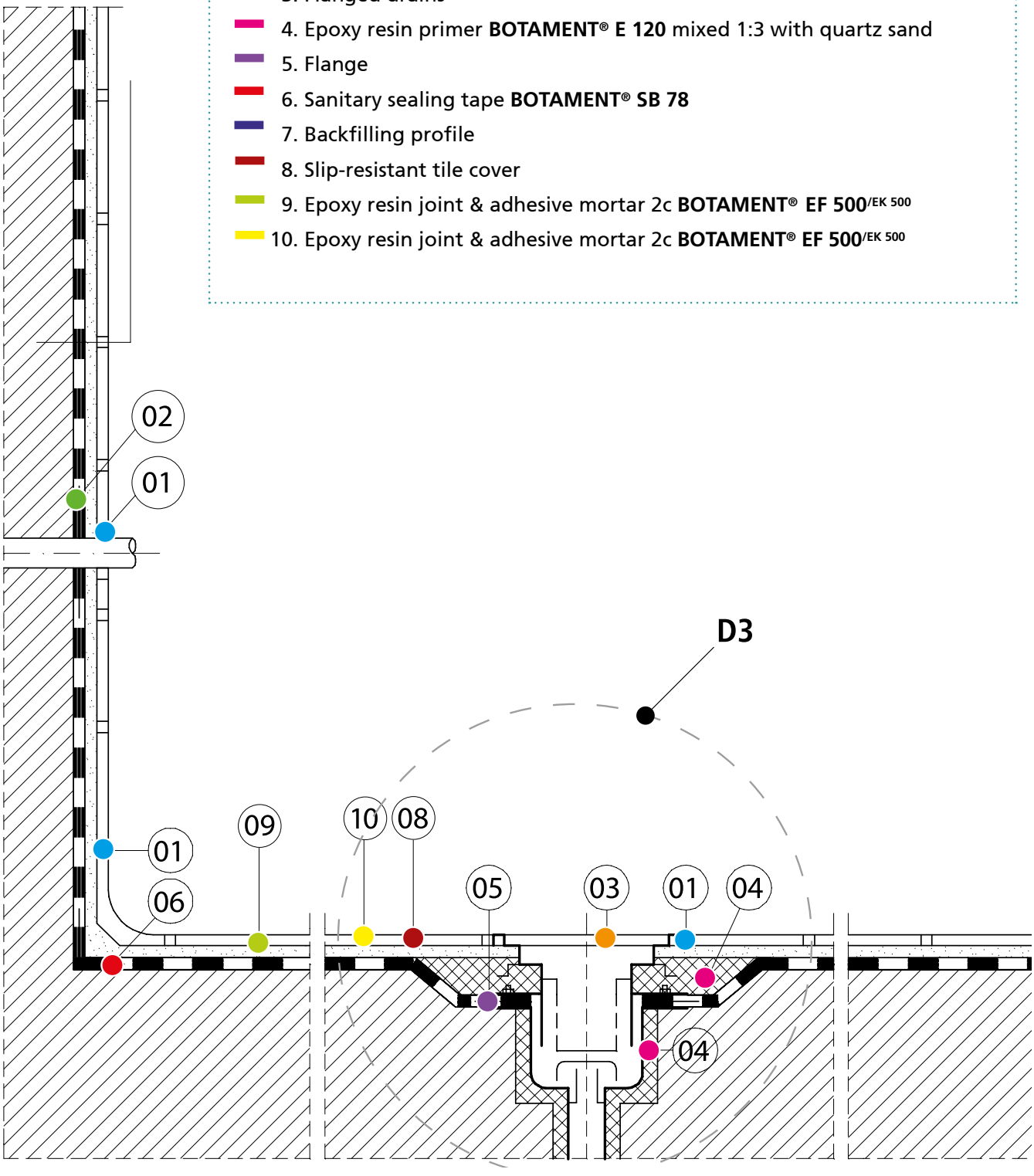
Special Joint Mortar
BOTAMENT® CF 600

Drains and pipe openings

It is important to only install flanged drains.

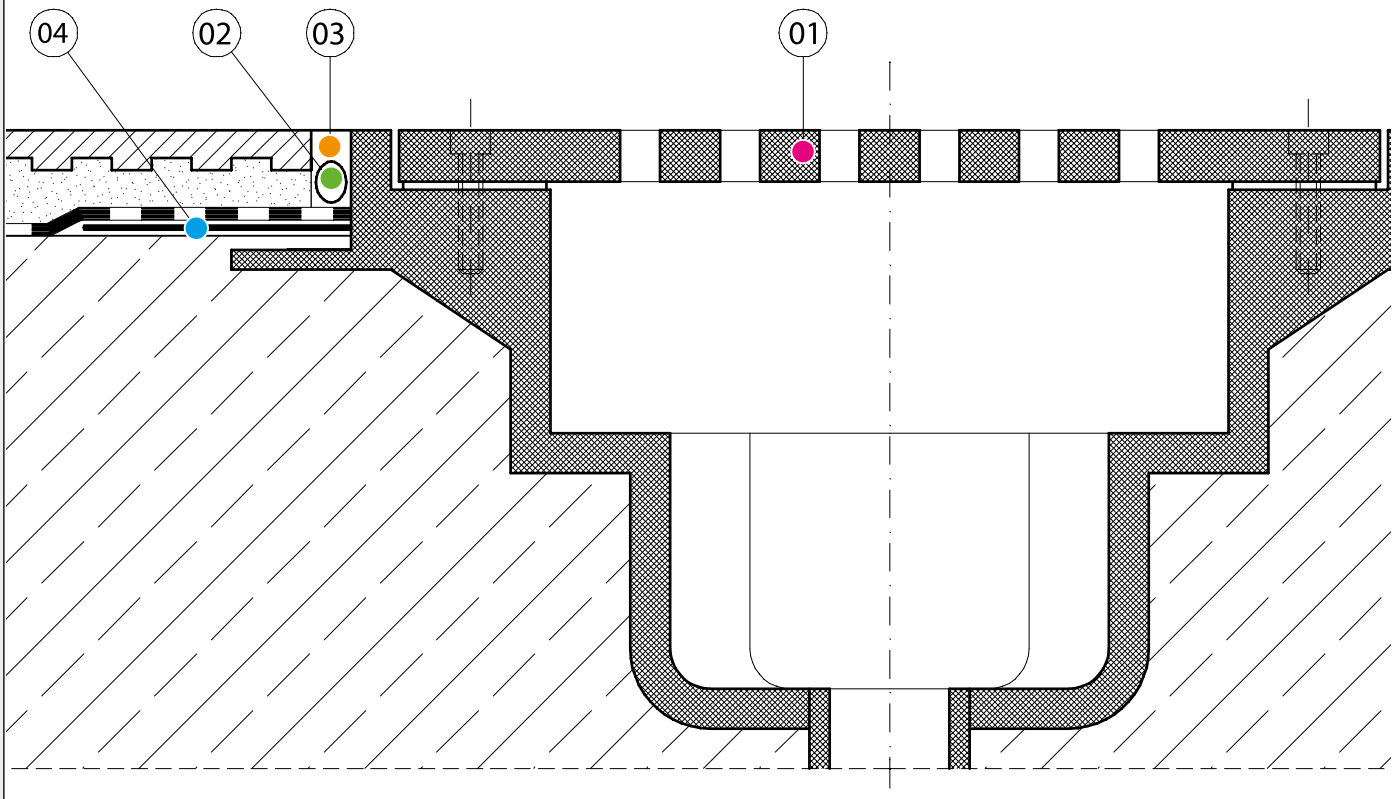
Chemical loads and cleaning agents must be tested beforehand.

1. Flexible acid-resistant silicone **BOTAMENT® SF 300**
2. **BOTAMENT® AE** Sealing and Decoupling Membrane
3. Flanged drains
4. Epoxy resin primer **BOTAMENT® E 120** mixed 1:3 with quartz sand
5. Flange
6. Sanitary sealing tape **BOTAMENT® SB 78**
7. Backfilling profile
8. Slip-resistant tile cover
9. Epoxy resin joint & adhesive mortar 2c **BOTAMENT® EF 500**/EK 500
10. Epoxy resin joint & adhesive mortar 2c **BOTAMENT® EF 500**/EK 500



D3 Drain detail

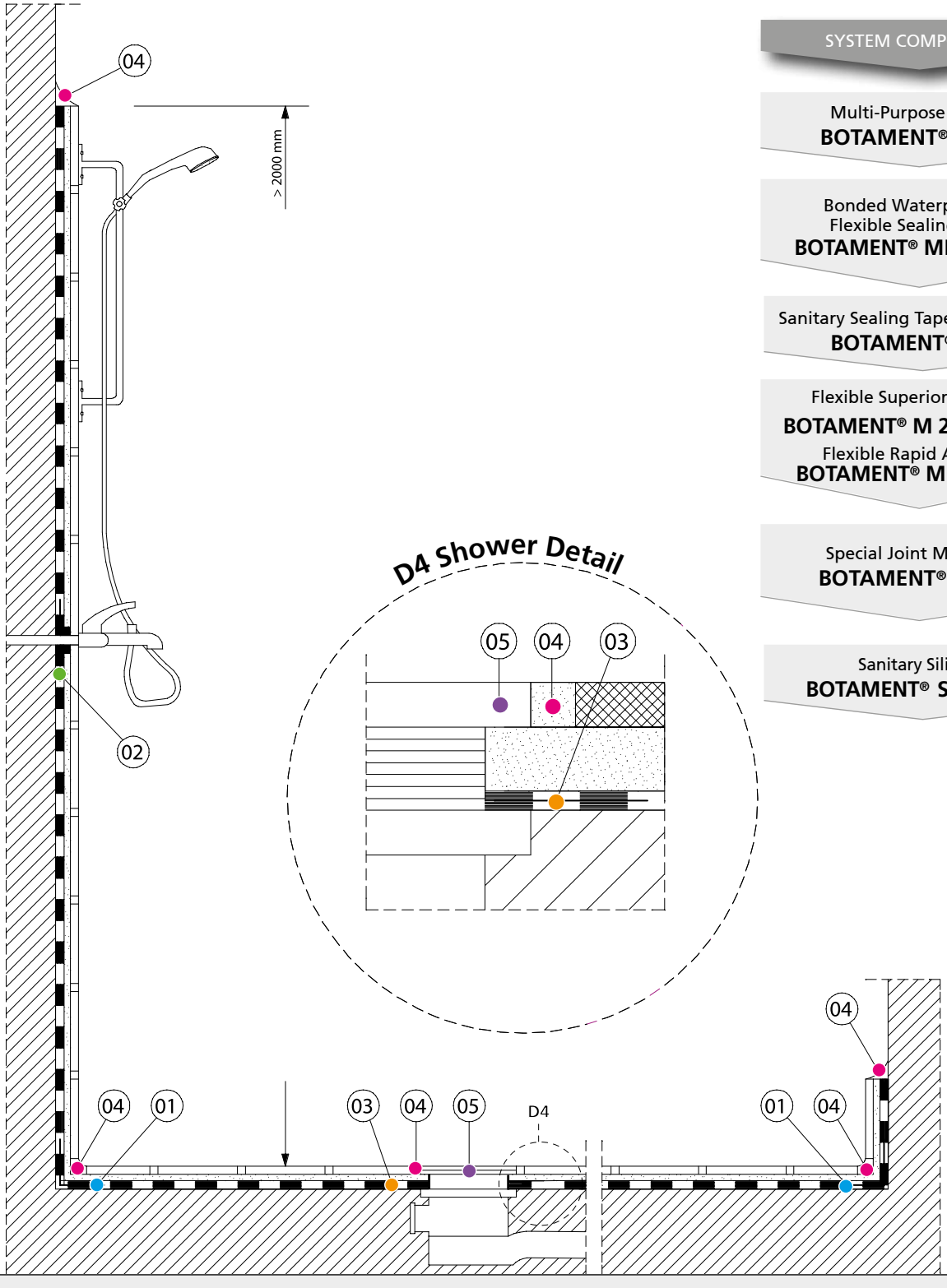
1. Flanged drain
2. Backfilling profile
3. Flexible acid-resistant silicone **BOTAMENT® SF 300**
4. Sanitary sealing tape **BOTAMENT® SB 78**



Public Showers

It is important to always fit flanged drains.

1. Sanitary Sealing Tape **BOTAMENT® SB 78**
2. **BOTAMENT® SB 78** cuff into the **BOTAMENT® MD 1 Speed** Flexible Sealing Slurry
3. Waterproofing using **BOTAMENT® MD 1 Speed** Flexible Sealing Slurry and embedding of **BOTAMENT® SB 78**
4. Sanitary Silicone **BOTAMENT® S 5 SUPAX**
5. Drain



SYSTEM COMPONENTS

Multi-Purpose Mortar
BOTAMENT® M 200

Bonded Waterproofing Flexible Sealing Slurry
BOTAMENT® MD 1 Speed

Sanitary Sealing Tape & Accessories
BOTAMENT® SB 78

Flexible Superior Adhesive
BOTAMENT® M 21 Classic or
Flexible Rapid Adhesive
BOTAMENT® M 10 Speed

Special Joint Mortar 2c
BOTAMENT® CF 200

Sanitary Silicone
BOTAMENT® S 5 SUPAX

Tiling Requiring High Mechanical Strength

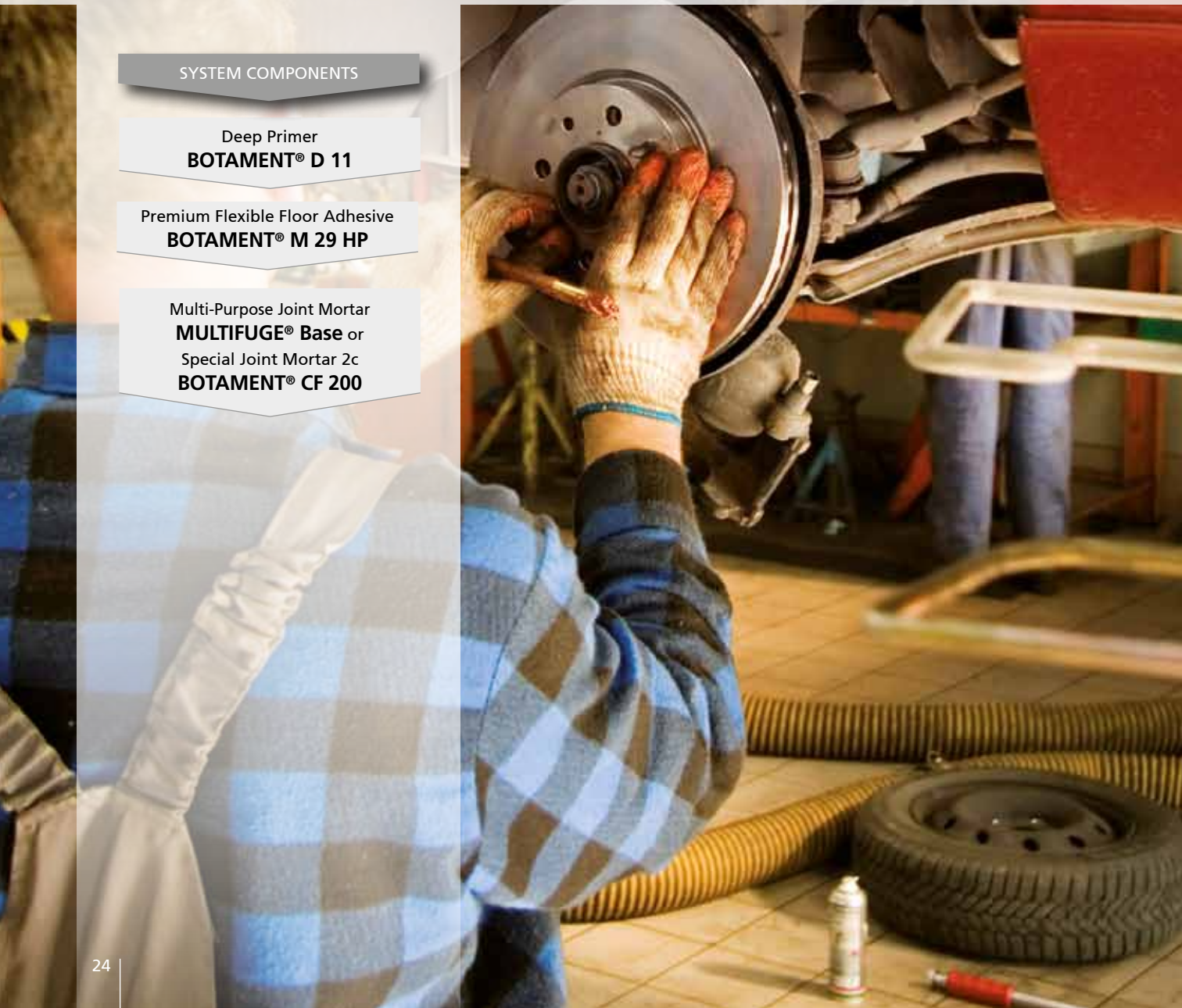
Factories & Warehouses

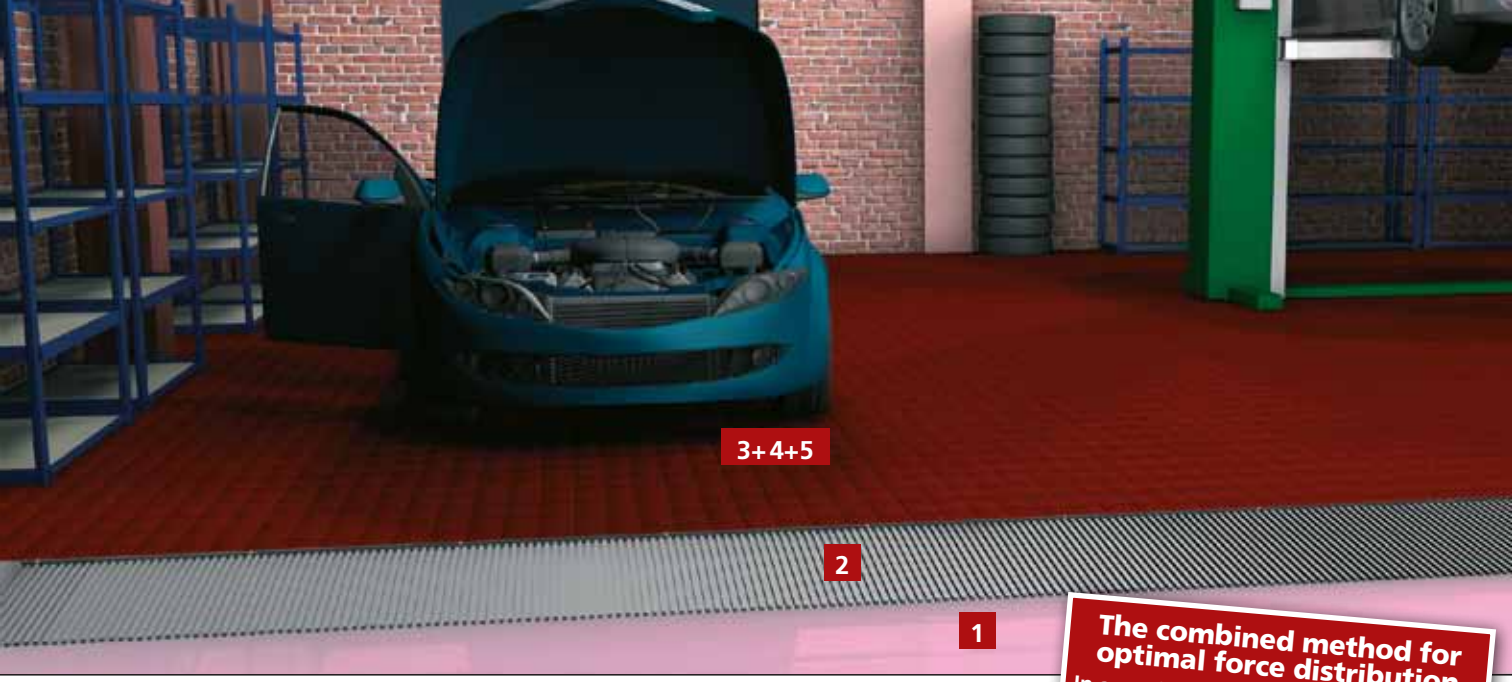
SYSTEM COMPONENTS

Deep Primer
BOTAMENT® D 11

Premium Flexible Floor Adhesive
BOTAMENT® M 29 HP

Multi-Purpose Joint Mortar
MULTIFUGE® Base or
Special Joint Mortar 2c
BOTAMENT® CF 200





The combined method for optimal force distribution

In accordance with the ZDB information sheet "Ceramic covers subject to high loads" the tiling ought to be free of any voids in the tile bed.

It's a constant hustle and bustle here!

Tiling in factories and warehouses

Floor covers in factory halls, supermarkets and showrooms are without fail subjected to high mechanical, and often also chemical loads, due to the cleaning agents used to keep them clean. For this reason it is imperative to aim for an installation that is free of any voids for such heavily used floors. As a result the "combined method" is used here, which becomes significantly more efficient when using adhesives with fluid-bed properties. Botament's premium flexible floor adhesive, M 29 HP, features exactly this quality without losing any of the required stability. A point that is particularly important when fitting large floor tiles, as these tend to sag during the curing of the adhesive, which in turn can lead to spills or so-called hot spots that are unattractive and spoil the finished look.

To save time, joint mortar is frequently applied as slurry. With Multifuge Base this is really simple to do and any "premature drying" of the mortar is avoided. What's more, this joint mortar also features outstanding cleaning properties.

For application areas that are subject to aggressive substances or heavy mechanical abrasion, we recommend using CF 200 Special Joint Mortar 2c. This joint mortar is filled into the joints in the traditional way and is then washed off.

Prime absorbent substrates with BOTAMENT® D 11

Apply the Premium Flexible Floor Adhesive BOTAMENT® M 29 HP

Lay the tiles using the combined method

Slurry-in the slurry mixture Multifuge Base using a rubber squeegee

Grouting of CF 200 using a grout float

Wash off the veil left behind by Multifuge Base or CF 200

Electrically Conductive Tiling

Work areas with electrically conductive tiling

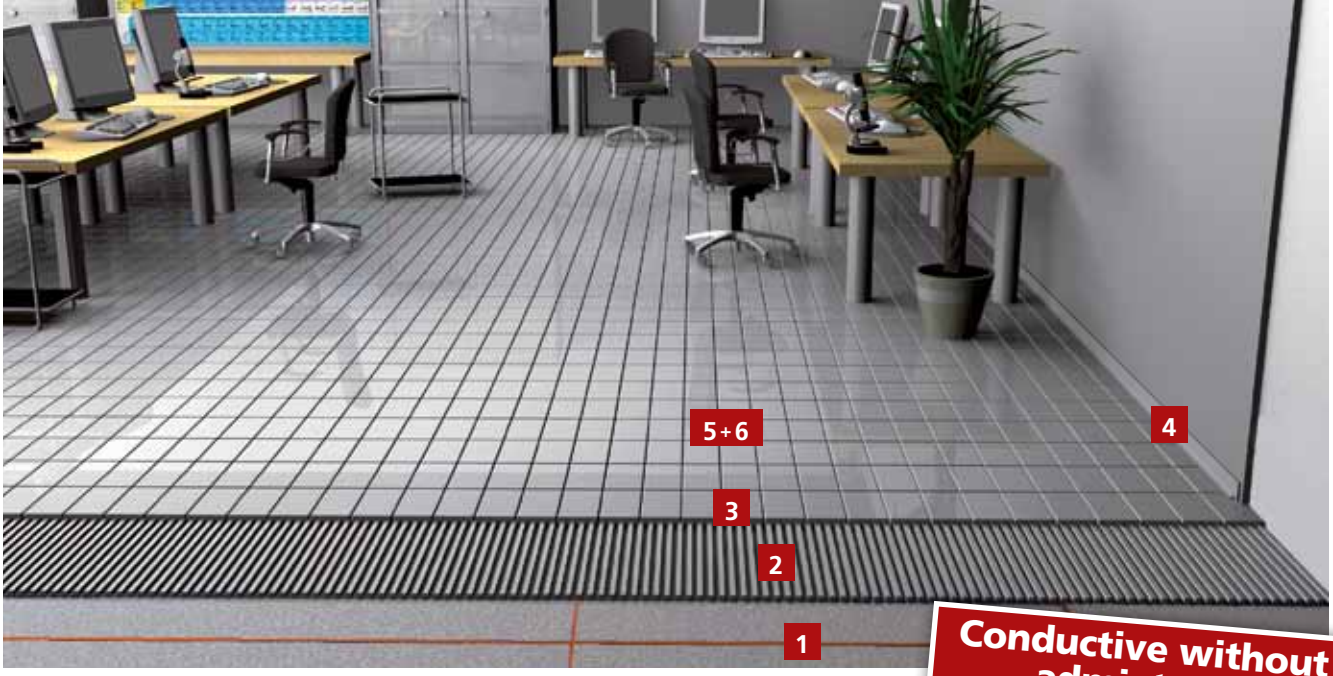
SYSTEM COMPONENTS

Copper Tape

Highly Resistant Tile Adhesive 2c
BOTAMENT® TK 150

Acid-Resistant Grout 2c
BOTAMENT® SF 100

Acid-resistant Silicone
BOTAMENT® SF 300



Conductive without admixtures
our acid-proof products are already electrically conductive when they leave our factory!

Attention: electrostatic charging!

Tiling in labs, computing centres, operating theatres and other, similar spaces

The pharmaceutical, print, paint and coatings industries are all using highly sensitive machines, which are also commonplace in computing centres, operating theatres, production facilities and laboratories; these machines may be disrupted, if not destroyed, by electrostatic charging. So as to prevent such risks, rooms of this type must by law have floor cover that is electrically conductive.

Here our special adhesives and joint mortars offer reliable protection thanks to their high electrostatic conductivity. The limit that is permissible depends on the conditions locally. In general, an electric discharge resistance of 10^6 is sufficient.

If there are substances in these areas that are particularly easy to ignite or that are highly explosive, it may be necessary to lower the resistance. Furthermore, electrically conductive adhesives and joint mortars must in addition be highly acid-proof and chemical-proof. With the highly resistant tile adhesive, TK 150 2c and BOTAMENT® SF 100 Acid-Resistant Grout 2c, we are fulfilling these requirements.

Install the copper tape on the floor surfaces

Apply BOTAMENT® TK 150 using a suitably sized notched trowel

Insert the conductive tiles into the adhesive bed of BOTAMENT® TK 150

Fit the base tiles using BOTAMENT® TK 150

Fill the joints with the conductive joint mortar BOTAMENT® SF 100

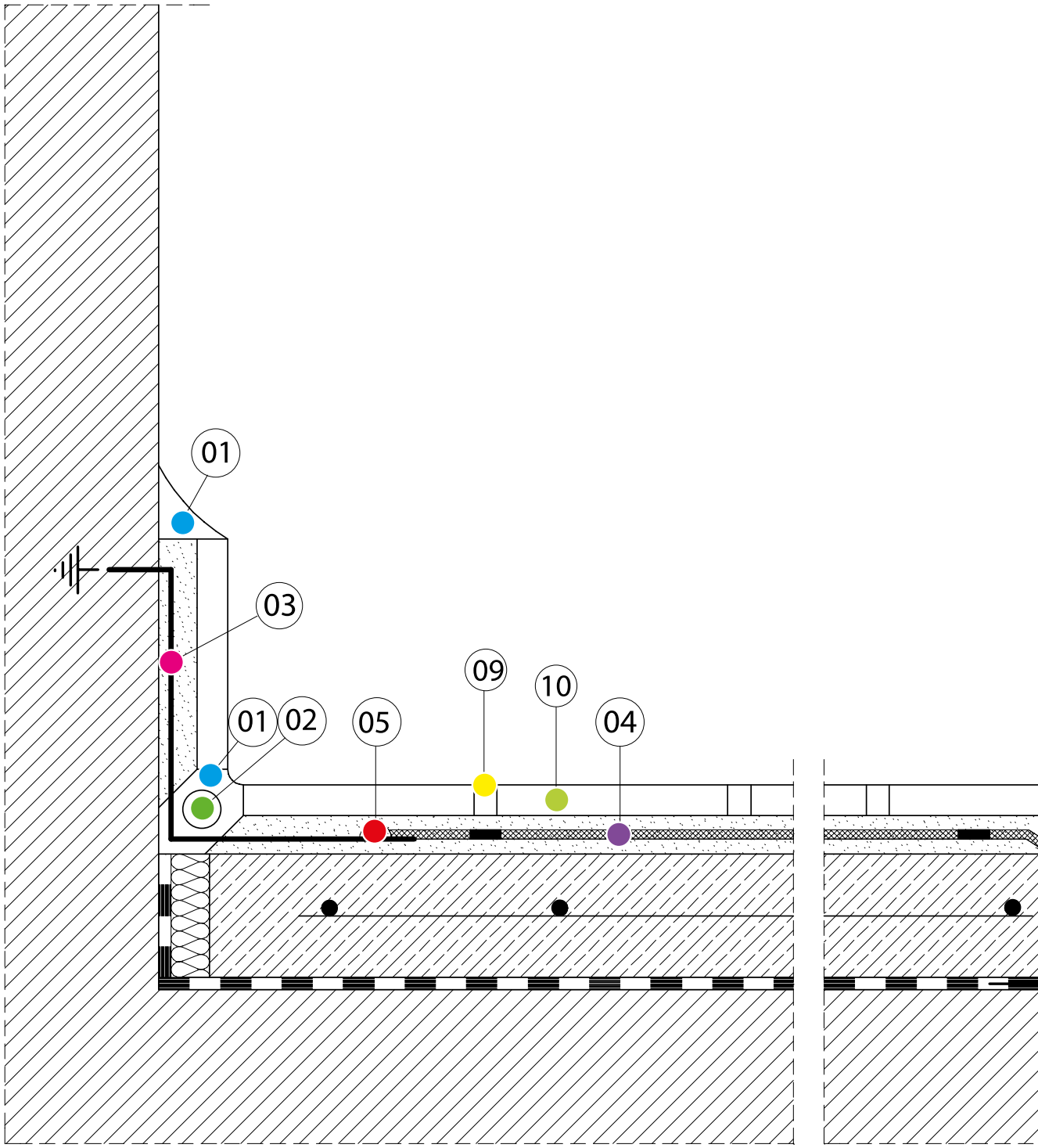
Wash off the conductive joint mortar residue BOTAMENT® SF 100. It is important to ensure all joints are complete and meet, covering the entire area

*Please observe our cleaning recommendations, which you can find at www.botament.com

Application details

Electrically conductive tiling

1. Flexible acid-resistant silicone **BOTAMENT® SF 300**
2. Backfilling profile
3. Ground potential connector
4. Copper strands in a grid of 5 x 5 m
5. Solder point
6. Solder point at the joint profile
7. Joint profile
8. Conductive tile adhesive **BOTAMENT® TK 150**
09. Conductive joint mortar **BOTAMENT® SF 100**
10. Electrically conductive ceramic tile



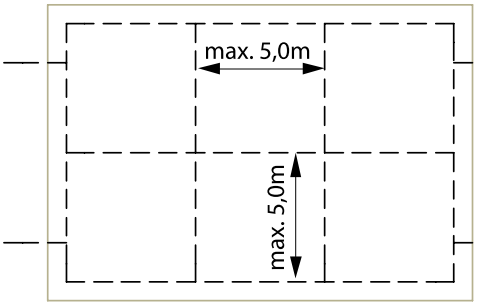
SYSTEM COMPONENTS

Highly Resistant Tile Adhesive 2c
BOTAMENT® TK 150

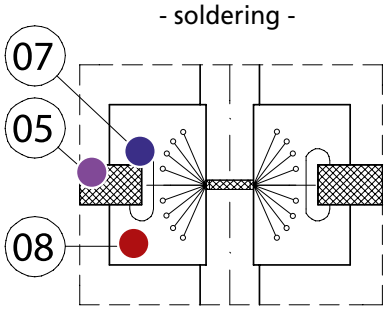
Acid-Resistant Grout 2c
BOTAMENT® SF 100

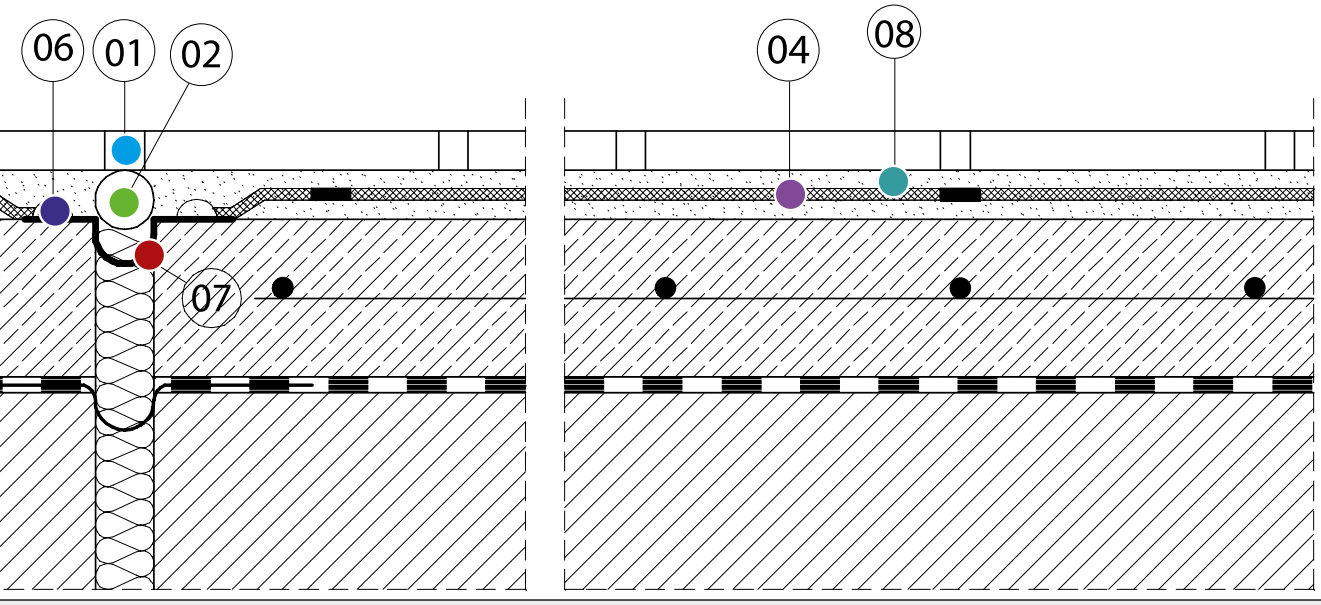
Flexible acid-resistant silicone
BOTAMENT® SF 300

Installing the copper tape



Connecting the copper tape
- soldering -





Regulations that must be observed

DIN Standards	
DIN 4102	Fire behaviour of building materials and building parts
DIN 4103	Internal, non-loadbearing partitions
DIN 4109	Sound insulation in buildings
DIN 18157	Execution of ceramic linings by thin-bed method
DIN 18183	Partitions and wall linings made of gypsum board on metal studs
DIN 18195	Waterproofing of buildings
DIN 18202	Tolerances in building construction
DIN 18352	Wall and floor tiling
DIN 18354	Asphalt flooring works
DIN 18515	Cladding for external walls
DIN 18560	Floor screeds in building construction
DIN 19643	Treatment of swimming pool water

DIN EN Standards	
DIN EN 206	Concrete
DIN EN 998	Specifications for masonry mortars - rendering and plastering mortars
DIN EN 1264	Water-based surface-embedded heating and cooling systems
DIN EN 12004	Adhesives for tiles
DIN EN 13279	Gypsum binders and gypsum plasters - definitions and requirements
DIN EN 13501	Classification of building products according to their fire behaviour
DIN EN 13813	Screed materials and floor screeds - properties and requirements

DIN EN ISO Standards	
DIN EN ISO 12944	Paints and varnishes - corrosion protection of steel structures through coating systems

Guidelines and Information Material	
ZDB Information Sheet	Outside stairs
ZDB Information Sheet	Expansion joints
ZDB Information Sheet	Tolerances in building construction
ZDB Information Sheet	Swimming pool construction
ZDB Information Sheet	Coordination of intersections
ZDB Information Sheet	Highly loaded covers
ZDB Information Sheet	Covers on mastic asphalt
ZDB Information Sheet	Covers on cement screeds
ZDB Information Sheet	Covers on calcium sulfate screeds
ZDB Information Sheet	Outside covers
ZDB Information Sheet	Bonded waterproofing
ZDB Specialist Information	Drains and channels AIV
ZDB Specialist Information	Large formats
ZDB Specialist Information	Decoupling
ZDB Specialist Information	Cement-based jonts in claddings and covers made with tiles and slabs
KOK (Coordination Circle Spas)	Guidelines for the construction of spas and public pools
AGI Work Sheet S10	Protection of building structures with tile covers against chemical wear-and-tear (acid protection)
AGI Work Sheet S30	Electrically conductive floor covers (acid protection)
AGI Work Sheet S40	Chemical-resistant floor covers using the vibration method (acid protection)

Please Note: The listing of the regulations to be observed does not claim to be exhaustive.

The information provided in this brochure is based on many years of 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. Since we are continually developing and new application methods and machines also have to be taken into consideration, our technical documents are constantly being updated. The content of this brochure is based on the technical know how in July 2016. When using the information herein, please check whether it is the latest information available. Applicable is always the latest technical datasheet, downloadable from our website www.botament.de. The brochure at hand becomes obsolete at the latest with the publication of a new, updated brochure.

The building material system by BOTAMENT:

Find your way quickly – with our intelligible colour code

Substrate preparation

- Primers
- Levelling compounds
- Multi mortar
- Building boards
- And much more…

Composite sealants

- Sealing tapes and accessories
- Reaction resin sealant
- Flexible sealing slurry
- Sealing membrane
- And much more…

Tiling

- Tile adhesives
- Natural stone mortars
- Bonding emulsion/ screed admixture
- Footfall sound and decoupling board
- Thin decoupling
- And much more…

Joints/joint sealants

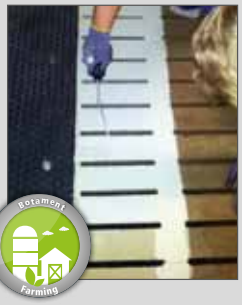
- Joint mortars
- Silicone
- And much more…

Building material technique

- Reactive sealants
- Bitumen thick coatings
- Moisture Control Render
- Multifunctional rapid cement mortar
- Concrete repair and cosmetic
- Design floor sealants
- And much more…

Gardening and landscaping

- Pavement joint mortars
- Drainage mortar
- Deco Gravel Binding Agent
- And much more…



Our special system for farmers: Farming

- Floor sealant
- Highly resistant substrate sealant
- Highly resistant thin layer system
- And much more…

Our special system for flooring experts: BOTAFLOOR®

- Primers
- Levelling compounds
- Multifunctional adhesives
- Footfall sound and decoupling boards
- Floor sealant
- And much more…

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www.botament.com

Visit us on Facebook

Am Kruppwald 1
D-46238 Bottrop

Tel. +49 (20 41) 10 19 - 0
Fax +49 (20 41) 10 19 87

info@botament.de
www.botament.de

MC Building Chemicals Müller & Partners
Killycard, Castleblayney A75 VW11
Co. Monaghan

Phone +353 42 / 9 75 15 20
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