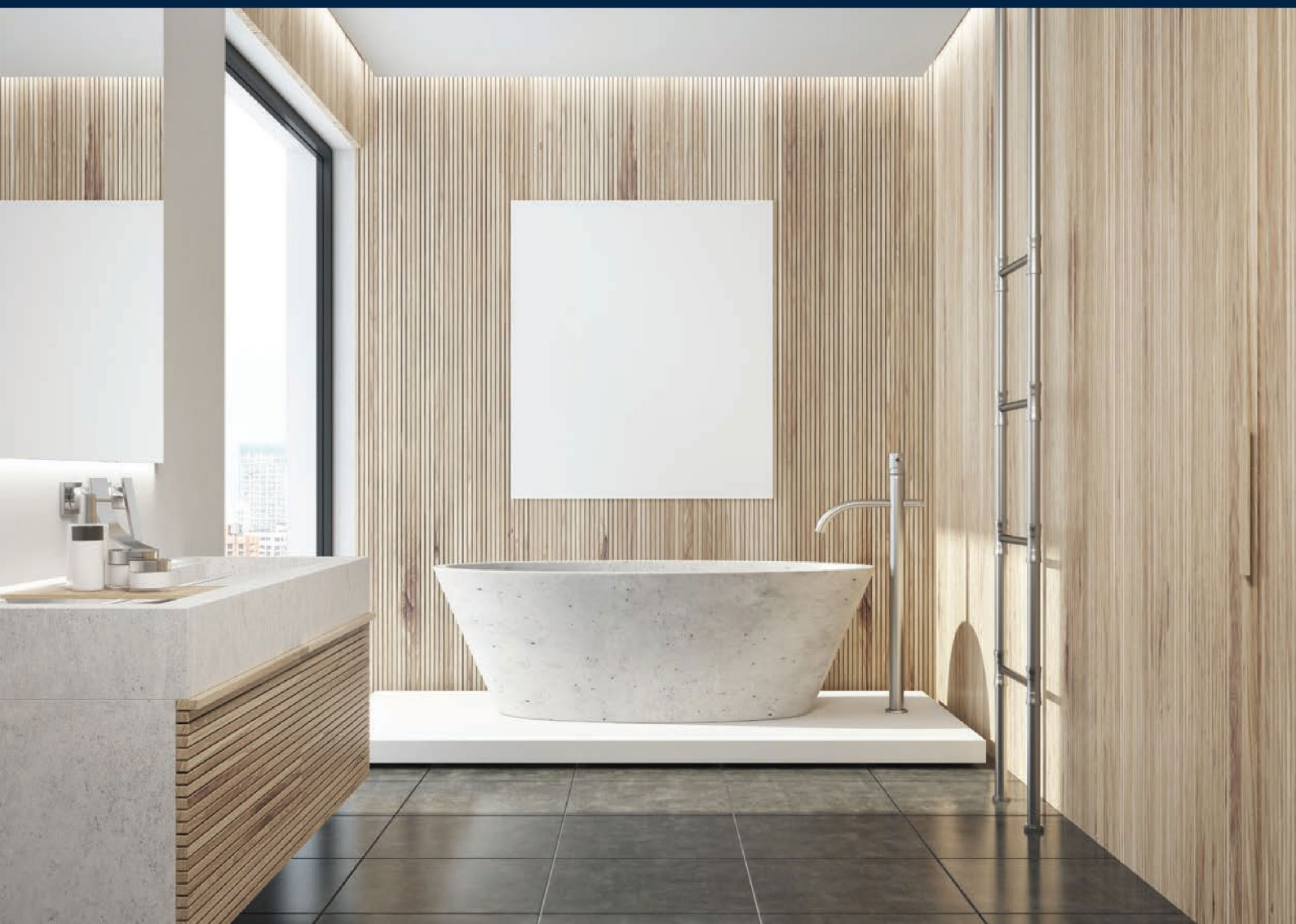


September 2021 replaces
June 2021



Bostik Pro Foil Waterproofing System

**INSTALLATION INSTRUCTIONS FOR BOARD, PLASTER
AND CONCRETE SUBSTRATES, VTvF-X & VTgF-X**






vatten
täta
våtrum

Byggherarkrådet





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Bostik is the holder of the certificates SC0055-13 and SC0056-13.

SC0055-13 applies to PURUS Line and PURUS Corner in combination with Bostik waterproofing systems VTg10 and VTgF Universal.

SC0056-13 applies to Unidrain linear floor drains 1001-1004, 3002 and Unidrain corner floor drain 2011 in combination with Bostik waterproofing systems VTg10, VTgF Universal and Bostik Pro VTgF-X.

RISE Certification is the approval body for certificates for drains close to walls.

 0402
Bostik AB, Box 903, 251 09 Helsingborg, Sweden, www.bostik.se 19 0402-CPR-SC0200-16
ETA -16/0086 ETAG 022 part 2 Watertight covering kits for wet room walls and floors Classification of the system and declared values of the product and system characteristics see Declaration of Performance Date ETA 2019-12-03

INDUSTRY STANDARDS

All industry standards for substrates, material and their properties are specified in the trade rules of the Swedish Ceramic Tile Council for wet rooms. The trade rules can be downloaded from www.bkr.se or be ordered in printed format from the Swedish Ceramic Tile Council.

Industry standards for waterproofing wet rooms

TRADE RULES OF THE SWEDISH CERAMIC TILE COUNCIL FOR WET ROOMS BBV 21:1

- The wet room is divided into wet zones. Wet zone 1 is the entire floor area in the wet room, the walls in the tub/shower area and wall surfaces plus at least one metre. If the outer wall is included in wet zone 1, the entire outer wall is to be considered as wet zone 1. Wet zone 2 is all other wall surfaces. See the picture and table below.
- Board structure walls and floors in wet zone 1 must be covered with a waterproof foil-type system, i.e. Bostik waterproofing systems VTvF-X & VTgF-X.
- Board structure walls in wet zone 2 must be covered with a foil-type system, i.e. Bostik waterproofing system VTvF-X or a rollable Bostik waterproofing system VTv10. The transition between the different waterproofing systems must be sealed using sealing tape.
- Solid walls and floors, i.e. concrete ceilings, polished concrete or brick, must be covered with a foil-type system, i.e. Bostik waterproofing systems VTvF-X & VTgF-X, or a rollable system, i.e. Bostik waterproofing systems VTv10 & VTg10.
- We recommend a wet room board specified by the board manufacturer, but this is not a requirement.

WET ZONE 1	VTv10	VTvF-X	VTg10	VTgF-X
Separate wet room boards on wall		●		
Solid wall such as plastered brick or lightweight concrete/concrete	●	●		
Board material and screed on floor				●
Solid concrete floor			●	●

WET ZONE 2	VTv10	VTvF-X	VTg10	VTgF-X
Cardboard-covered plasterboard on wall	●	●		
Separate wet room boards on wall	●	●		
Solid wall such as plastered brick or lightweight concrete/concrete	●	●		

WHERE DO THE RULES APPLY AND WHAT IS A WET ROOM?

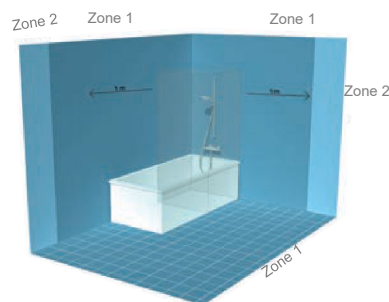
The rules apply to the function and application of waterproofing systems on various substrates where tiles or mosaics will form the surface layer on floors and walls in site-built wet rooms in residential buildings or areas with equivalent water load. Wet rooms are considered to be areas where floors and wall surfaces might be exposed, fully or partly, to recurrent water spray, such as areas where showers or bathtubs are installed. The rules can be applied, fully or partly, when natural stone, glass or similar products are used as a surface layer. The rules apply to ceramic tiles that are fitted using thin-layer technology. Thin-layer technology means that tiles are placed on an adhesive that has been combed with a notched trowel, applied on top of the waterproof membrane. These rules do not apply to other types of execution, such as thick grout or when the surface layer will consist of other materials, such as coloured cement products. Residential areas where the

following regulations can be applied include laundry rooms, toilets and areas with water heaters, heat pumps, boilers or similar. The rules can also be applied for other areas if there is a risk that the floor could be subjected to leaking water or water spills. Residential kitchens are not subject to requirements for waterproofing membranes on floors. The rules apply to both new construction and renovation. Rules concerning water and sewage installations are not included in BBV. For these, please refer to the Säker Vatteninstallation (Safe Water Installation) Trade Rules. See www.sakervatten.se. Rules for electrical installations are not included in BBV. For these, please refer to applicable Swedish standards. See www.elsakerhetsverket.se. Rules for paint work are not included in BBV. For these, please refer to Måleribranschens Våtrumskontroll (MVK) trade rules for wet rooms.

HOW TO ENSURE THAT WORK IS DONE PROPERLY

Bostik's installation instructions must be followed and the specified products must be used when building the structure. Only then is the work considered to have been carried out in accordance with BBV. It is important to read the technical data sheets when using the products included in the installation instructions. For more info, contact Bostik dealer or visit the website www.bostik.se.

Certified companies must issue a Quality Document, Appendix A to BBV, after each wet room contract. The Quality Document must be issued by the certified company whose personnel performed the waterproof membrane and must be submitted to the client and user/resident on completion of the work. The Quality Document is part of the contractor's undertaking for wet room contracts pursuant to BBV and must therefore be provided without delay. The Quality Document must be available in connection with final inspection. The certified tiler who performed the work must conduct self-inspection to verify that the work has been carried out in accordance with BBV and according to the relevant installation instructions. The quality documentation is completed by the company's wet room supervisor or certified tiler in one of the digital media provided by the Swedish Ceramic Tile Council for certified companies. The tiler's self-inspection can also be conducted directly in the mobile application. The Quality Document is then signed electronically by the wet room supervisor, and the certified tiler who performed the waterproof membrane must be named. If more than one certified tiler has carried out work in a wet room, their names must be recorded under other information. The Quality Document is sent to the client/resident by e-mail together with a link to the relevant installation instructions for the approved waterproofing system or, alternatively, in paper form. A copy of the Quality Document and a link to installation instructions are archived digitally and are available at the certified company for their own documentation and also so that they can be presented in connection with quality audits. As a supplement to the above Quality Document, self-inspection for Bostik's approved waterproofing system can be completed. See www.bostik.se under 'Tätskikt' or 'Hjälpmedel & Verktyg.'



Wet room zones:
 Zone 1 = Entire floor plus the blue section on the wall. If part of the outer wall is included in wet zone 1, the entire wall must be treated as belonging to wet zone 1.
 Zone 2 = Other surfaces.

How to prepare the substrate

All products in the waterproofing system are tested together to meet the requirements of the current trade rules. No part of the system may therefore be replaced.

SEALING

Sealing tape and pipe collars should be applied to all transitions, wall/floor angles, wall/wall angles and pipe penetrations. Rules concerning water and sewage installations are not included in BBV. For these, please refer to the Säker Vatteninstallation (Safe Water Installation) Trade Rules. See www.sakervatten.se. Rules for electrical installations are not included in BBV. For these, please refer to applicable Swedish standards. See www.elsakerhetsverket.se. Rules for paint work are not included in BBV. For these, please refer to Måleribranschens Våtrumskontroll (MVK) trade rules for wet rooms.

WALL SUBSTRATES

Suitable substrates for waterproofing are concrete, plaster and approved wet room boards as well as cardboard-covered plasterboard.

Concrete, wall filler, lightweight concrete

The concrete should have hardened for at least 3 months and be cast to form a smooth finish. Irregularities, cracks and voids must be filled using e.g. Bostik Rep & Fix, Screed Combi 10 or Wallplaster. Any laitance and cement film, mould oil and other contaminants must be removed. Please note that pre-mixed wall filler or adhesive cannot be used as filler.

Board material

Wood-based boards should not be used as a substrate for waterproof membranes and tiling. Board structures must be documented as suitable for use in wet rooms and must be installed according to the manufacturer's instructions. Board walls must meet the tolerance requirements as described in the Swedish Ceramic Tile Council's trade

SUBSTRATES IN GENERAL

- Before work begins, the substrate must be checked to ensure that it is able to sustain weight and that it is clean and dry.
- Existing surface finishing must be removed, such as wet room mats, wallpaper and paint. Any deviations in application on existing substrates must be recorded in the quality document.
- The relative humidity (RH) of the substrate should not exceed 85%.
- The structure must be well dried before the waterproofing membrane is applied, max. 8% moisture, 6% for underfloor heating.
- Concrete slabs on the ground and in basements should be checked for penetrating moisture. If penetrating moisture occurs, only shower areas and areas with regular water spray should be sealed. Contact Bostik on tel.: 042-195000 for further information on measures to be taken in the event of penetrating moisture.
- Material and substrate should have a temperature of at least +10°C before starting installation. Contact Bostik on tel.: 042-195000 for further information about diffuse-open waterproofing system.
- The temperature in the room must be at least +10°C and max 25°C.
- Gaps, larger than 2 mm, between pipe penetrations and wall as well as cracks in wall and floor angles must be filled or sealed with Bostik acrylic sealant before the waterproofing membrane is applied.
- Pipe penetrations must be installed according to the instructions of Säker Vatten (www.sakervatten.se).

rules for wet rooms and AMA Hus. Absorbent materials must be pre-treated with Primer 6000 diluted 1:1 with water. Non-absorbent boards need not be primed.

FLOOR SUBSTRATES

Suitable substrates for waterproofing are concrete and screeds. Where a toilet, bidet or similar is to be installed on the floor, a level installation area of at least 300×400 mm is required. The gradient of the installation area should not exceed 1:100 (10 mm/m). All gradient specifications are measured in the direction of the floor drain. Alternative floor gradient for fixed installations, large-format tiles, disability access, more than one floor drain or similar must be agreed before execution. Agreement on alternative floor gradient must always be documented in the Quality Document, Appendix A to BBV.

Gradient tolerances

Space for bathtub and shower

- 1:25–1:150
7–40 mm/m
- 1:50–1:150
7–20 mm/m
- Other floor areas:
1:100–1:200
5–10 mm/m



Concrete

Should have hardened for at least 3 months and have a grated surface. Irregularities, cracks and voids must be filled using e.g. Screed Combi 10. Any laitance and cement film, mould oil and other contaminants must be removed. The concrete's deformation due to shrinkage must be taken into consideration. The relative humidity (RH) should not exceed 85.0%.

Screed

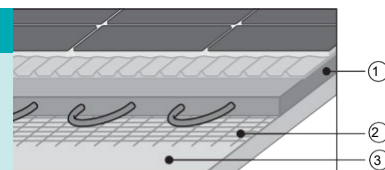
Must be cement-bonded, e.g. Bostik 1050 Fiber or 1040 Fiber Quick.

Wooden joists

Joists must be reinforced in order to adapt the flexural rigidity between joists to ceramic cladding. Wood quality C24 and dimension 45 x 220 mm. Floor chipboards must always be glued and screwed according to the board manufacturer's instructions. The joists must have a flexural rigidity that corresponds to 22 mm floor chipboards mounted on battens with a max cc of 300 mm (up to 4.2 between the supports).

WET ROOM FLOOR STRUCTURE

1. Screed
 2. Mesh reinforcement
 3. Floor chipboard
- NOTE! For grooved floor chipboard with plates and water-based underfloor heating coil, see installation instructions at www.bostik.se. Cables/pipes should not be placed under floor-mounted toilets or bidets.



Screed must always be applied to floor chipboards before the waterproofing membrane is installed. If the distance between the battens is 600 mm, the joist must be reinforced with short pieces with a centre-centre distance of 300 mm. Floor chipboards must be primed using Bostik Primer 6000 diluted 5:1 with water (5 parts primer to 1 part water). The design includes mesh reinforcement, Bostik Iron Force Net. The minimum thickness of the screed must be 12 mm at the floor drain. Use Bostik 1050 Fiber, 1040 Fiber Quick or 1055 Fiber Maxi.

Heated floor

Underfloor heating cables must be bedded in at least 10 mm filling compound. For water-based underfloor heating, the heating pipes must be bedded in a layer of filling compound that corresponds to 1/10 of the cc distance between the heating pipes. For example, a cc distance of 200 mm corresponds to 20 mm of filling compound above the heating pipe. The routing of electrical underfloor heating must be performed by a qualified electrician. Underfloor heating systems must be installed according to the manufacturer's instructions and subject to any layout drawings. Operation and startup of systems must be carried out according to the respective manufacturer's instructions and guidance, but not earlier than 28 days after tiling. For heated floors, the adhesives 8010 Fix Combi, 8060 Fix Rapid, 8070 Fix Light LT, 8020 Fix Floor & Wall or 8050 Fix White DR should be used. Ceramic tiles with a water absorption of more than 6% may not be used on underfloor heating systems.

FLOOR DRAIN

Floor drains must be type-approved and installed according to the manufacturer's instructions. The floor drain must be flush with the surface of the membrane. If necessary, a type-approved elevation system for the drain may be used. Drains manufactured before 1990 must be replaced. The minimum thickness of the screed must be 12 mm at the drain. Please note that special regulations apply to HWS products and drains close to walls, and those regulations can be obtained from the website of the Swedish Ceramic Tile Council or Säker Vatten.

TAPS AND HEATING PIPES

No pipe penetrations are permitted through floors in wet rooms other than for drains and floor drains. The distance between drain pipes and the wall's waterproof membrane must be at least 60 mm. Drain pipes are not permitted in bath or shower spaces. The distance between the substrate for the floor's waterproof membrane and the upper edge of the wastewater pipe must not be less than 40 mm when installing the waterproof membrane. Wastewater pipes or connection sleeves for toilets must have a smooth surface. Pipes must be fixed at penetrations. The maximum permitted cavity between pipe and substrate (adjoining board/filler etc.) is 2 mm, larger holes must be filled Bostik acrylic sealant. Exceptions to the above may apply in bathrooms or shower rooms with water heaters, heat pumps or water meters. Pipe penetrations in such areas can be executed in floors for such appliances with a pipe penetration sleeve. Pipe penetration sleeves are not permitted in bathtub or shower spaces. No water pipe penetrations are permitted through walls in bathtub or shower spaces other than water pipes directly to the mixer tap. Pipes must be fixed at penetrations. The maximum permitted cavity between pipe and substrate (adjoining board/filler etc.) is 2 mm, larger holes must be filled Bostik acrylic sealant. The distance between pipes and the floor's/wall's watertight membrane must be at least 60 mm. The centre-centre distance between pipes with a diameter of 32 mm or less must be at least 60 ± 2 mm. If the diameter is over 32 mm, the distance between the pipes must be 60 mm or more, see the figure below. Here, the pipe diameter is measured on the surface which is to be sealed. Check with the maker of the pipe system.

FLEXIBLE SEALANT IN WET ROOMS

Flexible sealants (silicone) should only be used where they are structurally necessary due to expected movements.

Flexible sealants should normally be used:

- In corners and angles where the substrate on both sides is concrete cast less than a year before tiling.
- In new construction where risk of movement in the substrate can be expected, for example, at wall angles where board structures abut the concrete wall or board structures abut other board structures.
- At transitions to other materials on walls such as door frames/architraves, window frames/sills/door sills. In these cases, a paintable flexible sealant must be used.
- In ceiling/wall angles. A paintable flexible sealant must be used where at ceiling angles. Silicone should not be used as it makes painting difficult.

Flexible sealants should not be used:

- At the lower edge of ceramic wall coverings that overlap turn-ups on plastic flooring
- In joints between ceramic floor tiles and the tile frame of floor drains

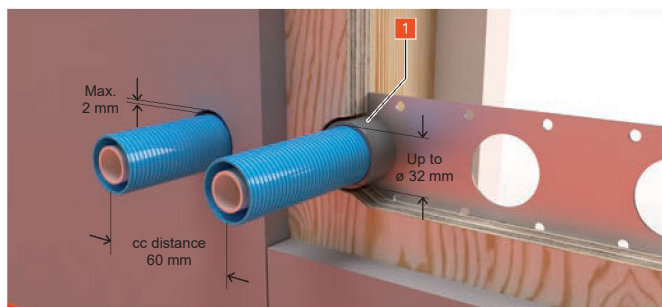
MAINTENANCE

Guidelines for maintenance of ceramic wall and floor coverings are available from the Swedish Ceramic Tile Council (Bygggeramikrådet). Maintenance guidelines are also available in the handbook of the Swedish Ceramic Tile Council.

FIXINGS

In order for the space to meet the requirements for waterproof wet rooms, it is crucial to consider the following:

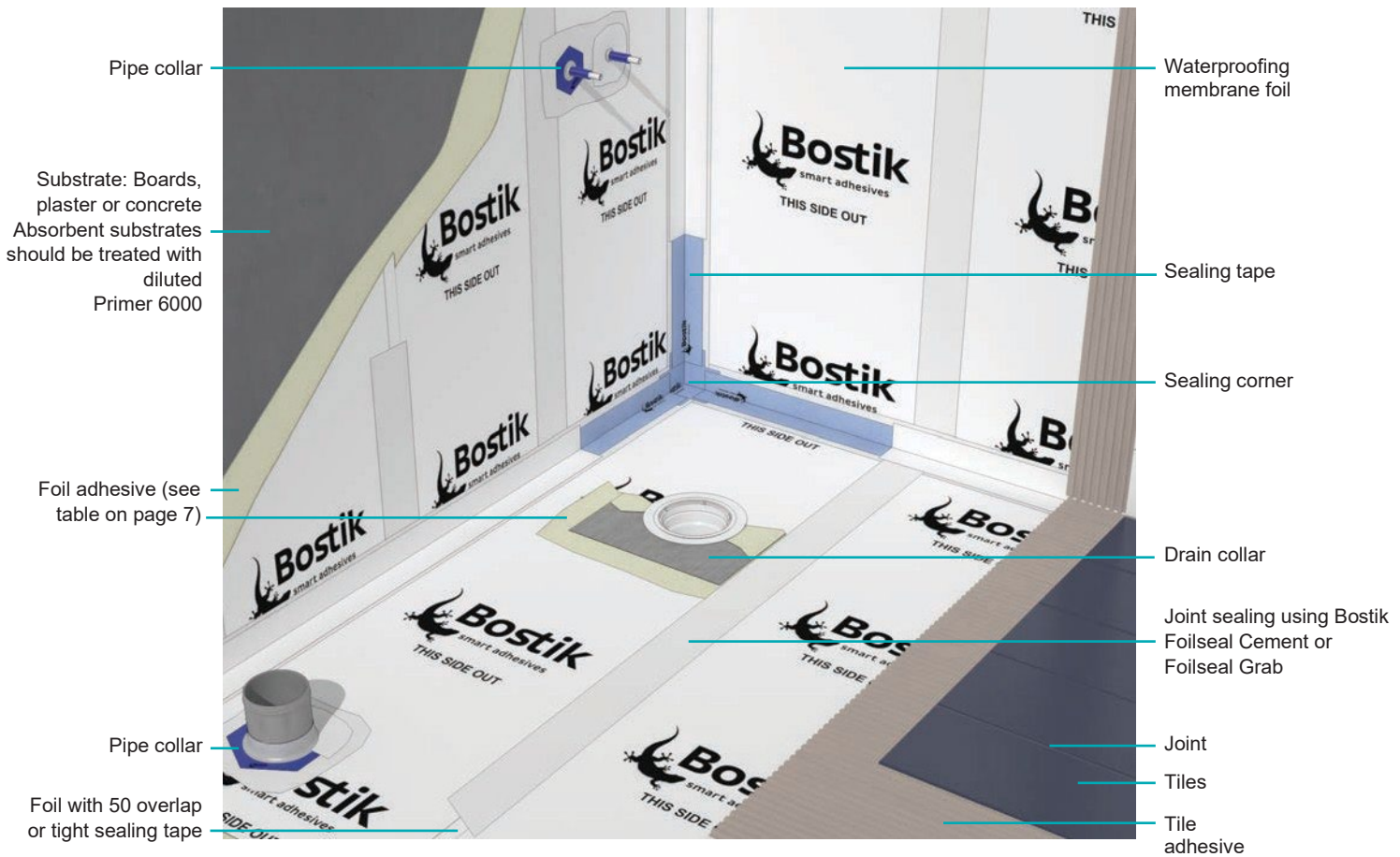
- Avoid any penetrations by showers and bath tubs.
- Avoid penetrations by gluing certain components. If the item can be glued (shape and material), Bostik Maxi Bond X-treme or Bostik X-press can be used.
- All penetrations must be made in solid structures such as concrete, brick or posts. Fixing cannot usually be made in the board material without being screwed into something solid (wooden post or 15-mm structural plywood)
- The hole for the fixing must be filled with Bostik Silicone Wet Room or Build and Sanitary, push in a plug, apply silicone to the plug and fasten the screw.



Select the right pipe and drain collars

PIPES/DRAINS	Pipe collar
Water pipe	10-24 mm
Sink drain	32-55 mm
Toilet drain	75-110 mm
2 holes	8-24 mm
Wall-mounted toilet	110-140 mm
Drain collar	370x370 mm
Drain collar (design drains)	1500x200 mm
Pipe-in-pipe	20-32 mm

Exploded view drawing foil system



Bostik waterproofing systems

VTvF-X & VTgF-X



Bostik waterproofing systems VTvF-X & VTgF-X are a foil system and are used as waterproofing under ceramic coverings on floors and walls in wet rooms in houses and similar places. Waterproofing systems VTvF & VTgF are able to absorb deformations and are used for concrete, light concrete, plaster, spackled surfaces and board structures.

Bostik waterproofing systems VTvF-X and VTgF-X have been tested according to the European Standard ETAG 022 and complies with the Swedish National Board of Housing, Building and Planning's (Boverket) Building Regulations BFS 2011:6 as amended until and including BFS 2020:4, BRR. The system has been approved by the Swedish Ceramic Tile Council. The approval documentation can be found on the councils website www.bkr.se. The system's resistance to water vapour permeability is approx. 3446000 s/m.

WHAT YOU NEED:

Materials

- Waterproofing membrane foil
- Sealing tape and sealing corners
- Pipe collars and drain collars
- Bostik Membrane, Bostik Foil Seal Cement, Bostik Foil Tac 1C
- 8010 Combi, 8020 Floor & Wall, 8050 White DF, 8015 Combi Light.

Tools

- Roller
- Brush

WATERPROOFING SYSTEMS VTvF & VTgF	CONSUMPTION
Adhesive, application of waterproofing membrane foil:	Bostik Membrane 0.5kg/m ² , Bostik Foilseal Cement 0.6kg/m ² , Foil Tac 1C 0.6kg/ m ² or Startac Combi 0.3kg/m ² .
Sealing:	Bostik Foilseal Cement, Foil Tac 1C or Foilseal Grab, 1.5 dl per running metre of sealing tape or 1 dl per running meter of overlapping joint.
Waterproofing:	Waterproofing membrane foil.

Wall VTvF-X

PREPARATION

Fill cracks larger than 2 mm in corners, in board joints and at pipe penetrations using Bostik acrylic sealant. Cut all strips to size. The foil can be applied in two ways, edge to edge or with a 50-mm overlap.

TOOLS

Appropriate tools for installation of waterproofing membrane foil are: roller, brush, scissors, rule, pen, trowel made of hard plastic and protective gloves.

How to apply the foil around corners

Note that it will be difficult to apply the foil around corners without folds if the walls are not vertical and straight. To avoid use of tape or the risk

of folds in corners, it is a good idea to cover the corner with just 50 mm of foil as follows:

- Mark a straight line 950 mm from the corner (shower)
- Fold the foil 50 mm into the corner on the opposite wall.
- Apply the entire strip ending in the corner to create a 50 mm overlap.
- All actions (installation, jointing and sealing) can be done using Bostik Foil Tac 1C or Bostik Foil Seal Cement
- Joints can also be sealed by using Bostik Foil Seal Grab.

Plan ahead to ensure as few joints as possible on the walls and floor in the shower zone. Always use whole strips in shower corners and over floor drains. NOTE! Absorbent substrates must be primed with Bostik Primer 6000 diluted with water (1: 1). Non-absorbent substrates need not be primed.

INSTALLATION OF WATERPROOFING MEMBRANE FOIL



1

Once the primer is dry, apply Membrane, Foil Seal Cement, Foil Tac 1C or Startac Combi liberally on the wall. Apply for 1 strip at a time. See the consumption table on page 7.



2

Apply the strips within the stated time interval, see table on page 15. The waterproofing membrane foil must be applied vertically edge to edge or with at least 50-mm overlap.



3

NOTE! Smooth the strips with a plastic trowel. Cut the waterproofing membrane foil by the floor angle or apply the foil 50 mm onto the floor.



4 Alt. 1 Strips applied edge to edge

Roll or brush Bostik Foilseal Cement or Bostik Foil Tac 1C on all joints. Apply the sealing tape to ensure full contact. Roll or brush Bostik Foil Tac 1C or Bostik Foil Seal Cement liberally on the sealing tape (at least 50 mm outside). NOTE! Avoid folds or blisters on the sealing tape.



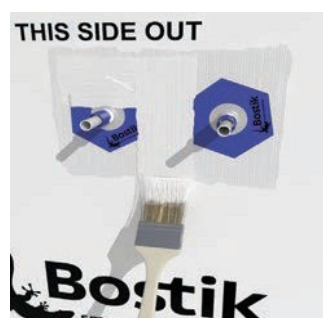
4 Alt. 2 Overlapping strips

Fold the overlapping foil down, roll or brush Bostik Foilseal Cement or Bostik Foil Tac 1C under the entire overlap. Press the overlap back using a trowel to ensure full contact. Roll or brush Bostik Foil Tac 1C or Bostik Foil Seal Cement liberally on the foil joints (at least 50 mm outside the joints). Use a plastic trowel with rounded corners to even out any folds and blisters that have formed when the waterproofing membrane foil, sealing tape, internal and external corners were applied.



5

Brush Bostik Foilseal Cement or Foil Tac 1C liberally around pipe penetrations to ensure that pipe collar attaches properly. NOTE! Not on the pipe.



6

Apply the correct Bostik pipe collar (see page 6). Brush or roll Bostik Foilseal Cement, Foil Tac 1C or Bostik Membrane liberally on the pipe collar (at least 50 mm outside the collar). Avoid folds or blisters. Electric pipes must be sealed in a similar manner.



7

Brush Bostik Foilseal Cement or Foil Tac 1C around the drain pipe for sinks and wall-mounted toilets so that the entire pipe collar attaches properly. NOTE! Not on the pipe.



8

Apply the correct Bostik pipe collar (see page 6). Brush or roll Bostik Foilseal Cement, Foil Tac 1C or Bostik Membrane liberally on the pipe collar (at least 50 mm outside the collar). NOTE! Avoid any folds or blisters on the collar.



9

Brush the entire collar with Bostik Foil Seal Cement, Foil Tac 1C or Membrane.



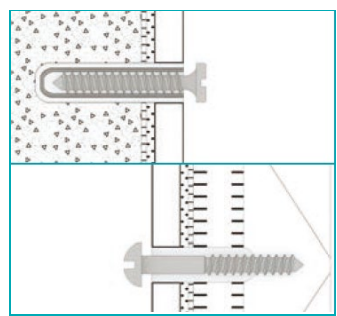
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Tiles can be applied after 12 hours' drying time. Apply adhesive using the smooth side of the trowel. Even out using the notched side. For the suitable adhesive, notch size and use, see page 15



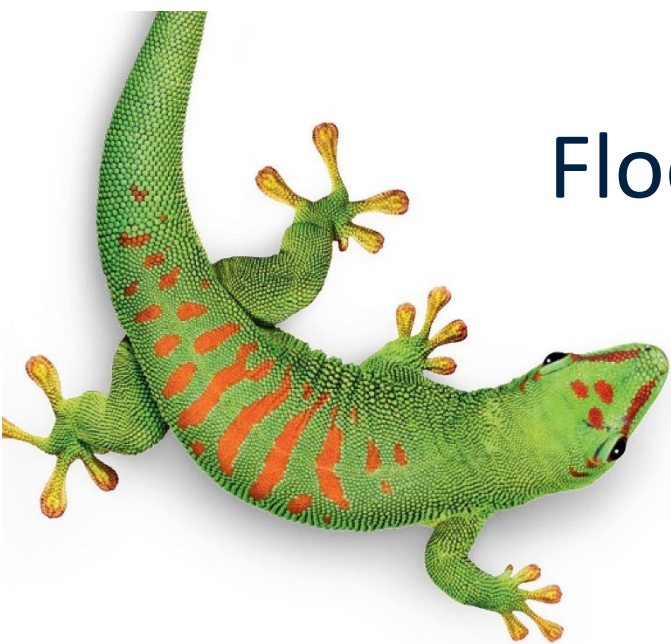
11

Apply the tile by pressing and twisting it against the substrate. Check regularly that the back of the tile is fully attached. Remove any adhesive that protrudes more than half the joint depth. Allow to dry for 12 hours before grouting.



12 PENETRATIONS

All penetrations must be made in solid structures such as concrete, brick or posts. The hole for the fixing must be filled with Bostik Silicone Wet Room or Bostik Silicone Build and Sanitary. Push in the plug, fill with silicone and fasten the screw. To avoid penetrations, many components can be glued (see page 6 Fixing).



Floor VTgF-X

HUSKI!

- High-performance concrete must be evened out with low-alkali levelling compound.
- Prime the floor with Bostik Primer 6000 diluted with water (1 part primer + 3 parts water)
- All actions (installation, jointing and sealing) can be done using Bostik Foil Seal Cement or Foil Tac 1C.
- Joints can also be sealed by using Bostik Foil Seal Grab.



1

See the separate instruction for connection of floor drain on pages 12-13 images 1-3 for sealing on other floor surfaces. Startac Combi or Membrane can be used on other floor surfaces, alternatively continue using Foil Seal Cement or Foil Tac 1C when installing the waterproofing membrane foil. Apply one strip at a time. For time intervals and consumption, see the table on page 15.



2

Cut the waterproofing membrane foil at the floor angle or allow to overlap with the wall foil.



3

Brush or roll Bostik Foilseal Cement or Foil Tac 1C liberally on all corners (internal and external) and apply the sealing corners wet on wet.

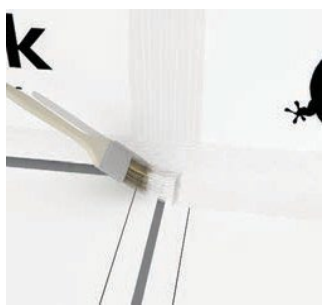
NOTE! It is also possible to apply sealing corners and sealing tape behind the waterproofing membrane foil with a 50-mm overlap.



4

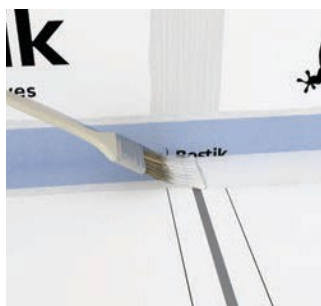
Brush or roll Bostik Foilseal Cement, Foil Tac 1C or Bostik Membrane on the applied sealing corners and at least 50 mm outside the corners.

NOTE! Avoid any folds or blisters on the corners.



5

Brush or roll Bostik Foilseal Cement or Foil Tac 1C liberally in the floor/wall angle and apply the sealing tape wet on wet.



6

Roll or brush Bostik Foilseal Cement, Foil Tac 1C or Bostik Membrane liberally on the sealing tape at least 50 mm outside the tape.
NOTE! Avoid any folds or blisters on the sealing tape.



7 Alt. 1

Strips applied edge to edge

Roll or brush Bostik Foilseal Cement or Foil Tac 1C liberally on all strip joints, apply the sealing tape to achieve full adhesion. Roll or brush Bostik Foil Seal Cement, Foil Tac 1C or Membrane liberally on the sealing tape at least 50 mm outside the tape.



7 Alt. 2

Overlapping strips:

Fold the overlapping foil down, roll or brush Bostik Foilseal Cement or Foil Tac 1C under the entire overlap. Press the overlap back using a trowel to ensure full contact. Roll or brush Bostik Foilseal Cement or Bostik Membrane on the foil joints, at least 50 mm outside the joints.



8

Brush Bostik Foilseal Cement or Foil Tac 1C around the drain pipe for sinks and toilets so that the entire pipe collar attaches properly. NOTE! Not on the pipe.



9

Install the correct Bostik pipe collar (see page 6). Brush or roll Bostik Foilseal Cement, Foil Tac 1C or Bostik Membrane liberally on the pipe collar and at least 50 mm outside the collar. NOTE! Avoid any folds or blisters on the pipe collar.



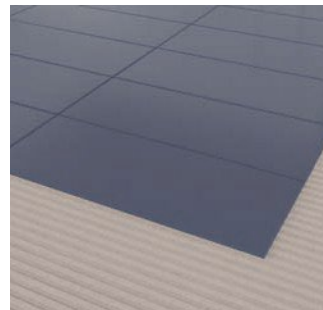
10

Brush the entire collar with Bostik Foil Seal Cement, Foil Tac 1C or Membrane.



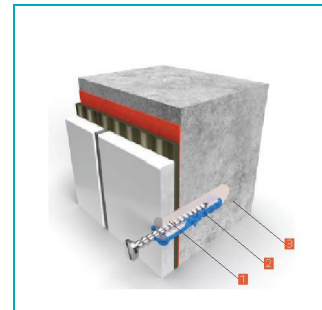
11

Tiles can be installed after 12 hours' drying time using Bostik Fix. Apply adhesive using the smooth side of the trowel. Even out using the notched side. For the suitable adhesive, notch size and use, see page 7



12

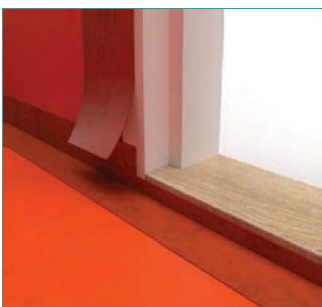
Apply the tile by pressing and twisting it against the substrate. Check regularly that the back of the tile is fully attached. Remove any adhesive that protrudes more than half the joint depth. Allow to dry for 12 hours before grouting.



13 FIXING IN CONCRETE WALL

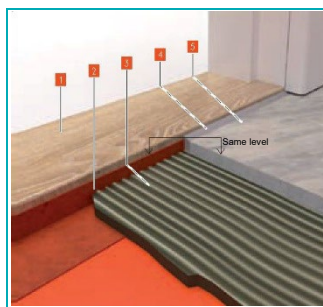
- The screw must be fixed in concrete
1. Sealant
 2. Plug and sealant
 3. Concrete wall

Bostik does not recommend penetrations in floors and the toilet should be glued onto the floor using Bostik Wetroom Silicone.

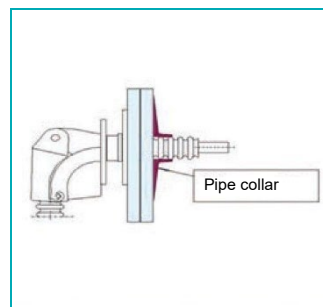


14 DOOR FRAME/DOOR SILLS

Doorframes/door sills must be flush with the substrate for the waterproofing membrane. See figure 14. The door sill or blind sill and frame must be installed before applying the waterproofing membrane. If this is not the case, it must be noted as deviation in the Quality Document. Sealing against sill or blind sill must be done by turning up the membrane and associated sealing against the sill to at least the level of the finished floor, see figure 15. The upper edge of the turn-up by the doorway must be at least 20 mm above the horizontal level of the waterproofing membrane around the floor drain flange. FIGURE 15. 1. Sill 2. Turn-up (Sealing) 3. Adhesive 4. Flexible sealant 5. Ceramic tiles

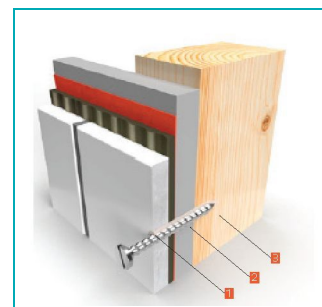


15



PIPE-IN-PIPE

In case of pipe-in-pipe systems, the pipe collar must sit tightly against the sheathing and not against water pipe.



BOARD WALL

Fixing in a wooden post The screw must be fixed in the post.

1. Sealant and maybe a plug
2. Board material
3. Post

Sealing of floor drain



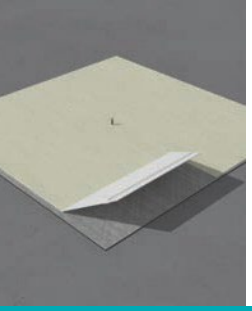






Purus or Jafo

Installation of a floor drain collar is critical to achieving a waterproof wet room. In the following, we will describe how to install the floor drain collar for two of the most common floor drain types.

The drain and any sheath are HWS products and must always be installed by a qualified HWS engineer. NOTE! If the floor collar is to be installed on other types of floor drains such as design drains/grooves, go to www.bostik.se/Dokumentarkiv/Arbetsbeskrivning-ar. During

installation, the temperature of the drain collar must be at least 15°C. Contact Bostik if you need to install floor drains other than Purus and Jafo.

SEALING OF FLOOR DRAIN – PURUS

<p>HUSK!</p> <p>Clean the drain flange and into the drain set using denatured alcohol or a similar agent before installing the drain collar.</p>	 <p>1</p> <p>Check that the floor is clean and free from dust. Apply Purus knife holder.</p>	 <p>2</p> <p>Centre the drain collar over the floor drain with the adhesive side facing down and the fibre surface facing up.</p>	 <p>3</p> <p>Apply Bostik Foilseal Cement or Foil Tac 1C on the fibre surface of the drain collar and on the other floor surface. NOTE! One strip at a time.</p>	 <p>4</p> <p>Apply the waterproof membrane foil on the floor and over the drain collar. Carefully rub the foil onto the substrate.</p>
 <p>5</p> <p>Use the accompanying tools for the Purus drain to cut the hole for the drain after a couple of hours of drying.</p>	 <p>6</p> <p>Remove the application holder and then fold down the foil and drain collar so that it lies against the edge of the drain.</p>	 <p>7</p> <p>To ease the installation of the clamping ring, you can brush a thin layer of Membrane around the edge of the drain where the clamping ring will be placed.</p> <p>NOTE! Use a grey clamping ring for the PURUS drain.</p>		 <p>8</p> <p>Place the accompanying drain grate on the clamping ring and press until it clicks into place. Check that the ring is level. See image.</p>



DRAINS CLOSE TO WALLS

For specific instructions for drains close to walls, go to:

www.bostik.se › Service Center or Hjälpmedel & Verktyg ›

Arbetsbeskrivningar ›

Instruktioner väggnära brunnar i våtrum.

SEALING OF FLOOR DRAIN – JAFØ

HUSK!

Disassemble the lid, grate and clamping ring and remove the O ring. Clean the drain flange and into the drain set using denatured alcohol before installing the drain collar.



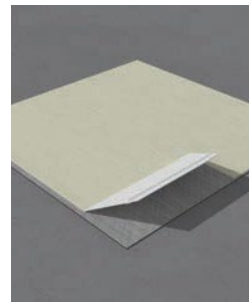
1

Check that the floor is clean and free from dust. Place the Jafo template.



2

Centre the drain collar over the floor drain with the adhesive side facing down and the fibre surface facing up.



3

Apply Bostik Foilseal Cement or Foil Tac 1C on the fibre surface of the of the drain collar and other floor surfaces. NOTE! One strip at a time.



4

Apply the waterproof membrane foil on the floor and over the drain collar. Carefully rub the foil onto the substrate.



5

Cut around the Jafo template after a couple of hours of drying.

The collar must go all the way down to where the conic groove becomes horizontal. No collar must be placed under the clamping ring.



6

Remove the template and then fold down the foil and drain collar so that it lies against the edge of the drain.



8

Install the clamping ring using the accompanying screws. Fix the screws diagonally until the clamping ring is stable.

Transition between rollable system and foil system

TRANSITION FLOOR/WALL ANGLE



1

Roll the wall with moisture barrier 2000K. Apply the waterproof membrane foil on the floor until the wall angle. Brush/roll Bostik Foilseal Cement or Foil Tac 1C into corners and angles.



2

Apply Bostik sealing corners and Bostik sealing tape on wet Bostik Foilseal Cement or Foil Tac 1C. Press using a brush or a plastic trowel.



3

Brush a layer of Bostik Foilseal Cement, Foil Tac 1C or Bostik Membrane over the seals.

HUSKI!

Wet rooms are divided into different wet zones with varying requirements for waterproofing system, see page 4. Wet zone 2 can be sealed using a rollable system and also applies to board structures. The transition can be made between the floor and wall, but also between walls. In order for the application to be approved, both structures must be from the same supplier. Contact Bostik in case of doubt.

TRANSITION WALL/WALL ANGLE



1

Roll the wall in wet zone 2 with moisture barrier 2000K. In wet zone 1, apply the waterproofing membrane foil on the wall until the angle. Brush/roll Bostik Foilseal Cement or Foil Tac 1C into corners and angles.



2

Apply Bostik sealing corners and Bostik sealing tape on Bostik Foilseal Cement or Foil Tac 1C. Press using a brush or a plastic trowel.



3

Brush a layer of Bostik Foilseal Cement, Foil Tac 1C or Bostik Membrane over the seals.

TRANSITION BETWEEN VTvF & VTgF AND VTv10 & VTg10

If the design allows, it is also possible to seal the opposite transition, meaning that waterproofing membrane foil is applied to the wall and a rollable system is applied to the floor. Seal all joints with corners and tape as described above. Check where wet zone 1 ends and wet zone 2 starts. All transitions must be made outside wet zone 1.

Replacing ceramic tiles



1

Cut or scrape the grouting around the damaged tile. Be careful not to damage the waterproofing membrane. NOTE! Use protective glasses and gloves.



2

Cut grooves through the tile using a tile saw or grinder. Do not cut deeper than the depth of the tile.



3

Remove tile pieces using a chisel and a hammer. Be careful not to damage the waterproofing membrane.



4

Use a chisel or other suitable tool to carefully scrape away remaining tile adhesive and grouting.



5

Apply the tile with tile adhesive on the back of the tile. Press the tile into place and grout after 12 hours. If the waterproofing membrane is damaged, contact Bostik (042-195000) for detailed instructions on how to repair the waterproofing.

Consumption tables

Consumption Bostik waterproofing systems VTvF-X & VTgF-X

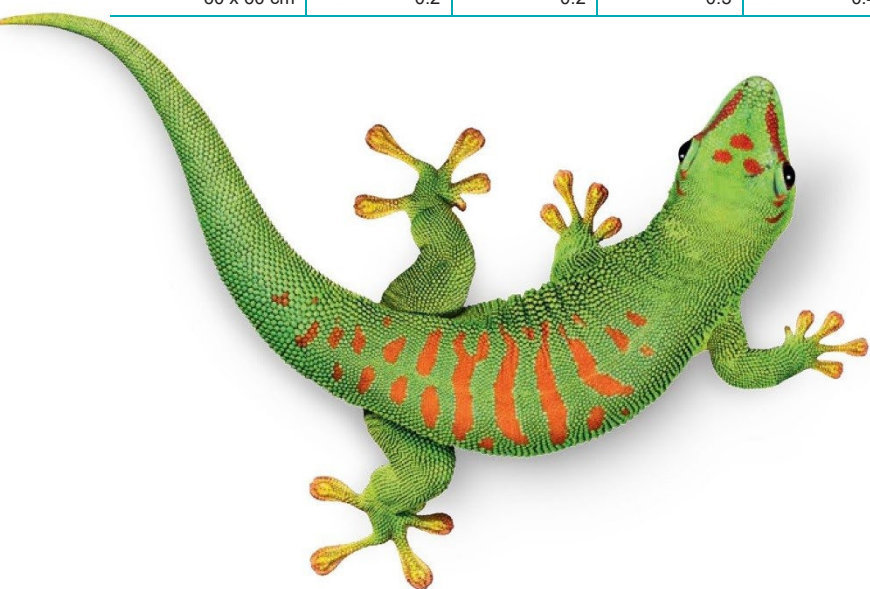
PRODUCT	CONSUMPTION PER M ²	TIME INTERVAL
FOIL ADHESIVE		
Bostik Membrane	0.5 kg	0-10 min
Bostik Foilseal Cement	0.6 kg	0-10 min
Bostik Startac Combi	0.3 kg	0-20 min
Foil Tac 1C	0.6 kg	
SEALING TAPE AND CORNERS		
Bostik Foilseal Cement	0.25 kg/running metre	
SANITARY SILICONE	approx. 9 running metres/cartridge (4 x 8 mm joint)	

Consumption adhesive kg/m²

TILE SIZE	NOTCHED TROWEL 8010	COMBI	8020 FLOOR & WALL	8015 Combi Light	8050 WHITE DF	8070 LIGHT LT
5 x 5 cm	4 mm	1.7	1.7	1.2	1.7	1.2
15 x 15 cm	6 mm	2.2	2.2	1.7	2.2	1.7
25 x 25 cm	8 mm	2.8	2.8	2.1	2.8	2.1
30 x 60 cm	10 mm	4.0	4.0	2.5	4.0	2.5
60 x 60 cm	12 mm	5.0	5.0	3.4	5.0	3.4

Consumption grouting kg/m²

TILE SIZE	2 MM JOINT	3 MM JOINT	4 MM JOINT	5 MM JOINT	6 MM JOINT	8 MM JOINT	10 MM JOINT	12 MM JOINT
5 x 5 cm	0.6	0.8	1.0	1.0	1.3	-	-	-
10 x 10 cm	0.5	0.7	0.9	1.2	1.4	1.7	1.9	2.1
15 x 15 cm	0.4	0.5	0.8	0.9	0.9	1.2	1.5	1.8
10 x 20 cm	0.4	0.6	0.8	1.1	1.2	1.3	1.6	1.9
20 x 20 cm	0.4	0.4	0.7	0.8	0.8	0.9	1.2	1.5
20 x 25 cm	0.3	1.4	0.5	0.7	0.8	0.8	1.0	1.2
25 x 25 cm	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.1
30 x 30 cm	0.3	0.3	0.4	0.5	0.6	0.7	0.8	1.0
30 x 60 cm	0.2	0.3	0.4	0.5	-	-	-	-
60 x 60 cm	0.2	0.2	0.3	0.4	-	-	-	-





Smart service
bostik.se

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