Get it done:

Application instructions MB PUReactive

remmers

Digital brochure

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Simple, safe and durable

CONTENTS

Application instructions MB PUReactive

What is PU hybrid waterproofing?

MB PUReactive is a PU hybrid waterproofing, but what does that really mean?

The technology in MB PUReactive is based on a liquid component and a powder component that create a synergy when mixed together. Thanks to the straightforward 1 :1 mixing ratio, mixing errors can be ruled out.
The material has a long pot life of around 90 minutes once it has been mixed, but it reacts extremely rapidly once applied. This means that the waterproofing is rainproof after around 2 hours.

In most cases, there is no need for a primer, or else a contact layer of the material itself can be used.

Unparalleled technical performance:
- ✓ Optimum processing characteristics
- ✓ Open working time: 1.5 hours
- ✓ Rainproof after approx. 2 hours
- ✓ Crack bridging > 3 mm
- ✓ Fast drying times (approx. 5 hours)
- ✓ Fire behaviour Class B-s1, d0 (without flame retardants)
- ✓ Tested temperature range (acc. to EAD): -30 °C to +90 °C
- ✓ Approved in the highest performance classes
- ✓ according to EAD 0303-50-00-0402 (formerly ETAG 005)

Very cost-effective
- ✓ Unique price/performance ratio
- ✓ Economical application rate
- ✓ One material, simple process
- ✓ High surface area output

Sustainable and modern
- ✓ Durable and long-lasting
- ✓ Odour neutral and solvent free

As PU hybrids, the MB PUReactive systems combine the best of multiple worlds to create roof waterproofing solutions with exceptional capabilities. MB PUReactive systems are just as cost-effective as sheet waterproofing, but can also be used effortlessly around joints and material transitions thanks to their excellent adhesion and flexibility.
And what's more, they satisfy the highest performance classes of EAD 0303-50-00-0402 (formerly ETAG 005).

MB PUReactive

MB PUReactive is optimised for manual application thanks to its flow properties. It can be applied quickly and easily with a roller.

The fabric of the MB PUReactive F-series is designed for easy embedding and absorbs movements of the building construction without any damage.

RANGE OF USE:

- ✓ Flat roofs, balconies, loggias, walkways
- ✓ Surfaces with and without living space underneath
- ✓ New buildings
- ✓ Refurbishment
- ✓ Material transitions

MB PUReactive TX

MB PUReactive TX features optimisations on two fronts. First, it is ideal for fabric-reinforced solutions on complex surface geometries, where it can be applied effortlessly to penetrations and rising components. This includes floor-to-ceiling windows over flat roofs, balconies, loggias and walkways, as well as plinth and render waterproofing. MB PUReactive TX is also the perfect solution for spray-on surface waterproofing thanks to its exceptionally low aerosol development. This means that, as a rule, no additional protective measures to prevent contamination of the surrounding area are needed on the flat roof.

RANGE OF USE:

- ✓ Flat roofs, balconies, loggias, walkways
- ✓ Surfaces with and without living space underneath
- ✓ New buildings and refurbishment
- ✓ Vertical areas
- ✓ Material transitions
- ✓ Connections to penetrations and rising components
- ✓ Waterproofing of floor-to-ceiling windows over flat roofs, balconies, loggias and walkways
- ✓ Plinth and render waterproofing over flat roofs, balconies, loggias, walkways

* Visit www.remmers.com for more information

MB PUReactive+

MB PUReactive+ is the quick and cost-effective solution for new buildings and especially when renovating flat roofs. The product is reinforced with fibres, which ensure that tensile forces, such as those generated across cracks, can be absorbed by the product without damage. This means that there is no need to embed an additional fabric material. This exceptional capability is demonstrated in the approval according to EAD 0303-50-00-0402 (formerly ETAG 005) in the highest performance classes. Since application without embedded fabric is still not covered by German regulations, a special agreement with the developer is needed. This is not necessary for the renovation of flat roofs. Whether over large surfaces or in areas with fine details, MB PUReactive+ can be applied with ease and is optimised for spraying.

RANGE OF USE:

- ✓ Flat roofs, balconies, loggias, walkways
- ✓ Surfaces with and without living space underneath
- ✓ New buildings and refurbishment
- ✓ Regeneration, especially under PV-systems
- ✓ Vertical areas
- ✓ Material transitions
- ✓ Connections to penetrations and rising components
- ✓ Plinth and render waterproofing over flat roofs, balconies, loggias, walkways

Substrate preparation

Proper preparation of the substrate is the key to achieving the required bond strength.

General principles

Substrate requirements:
The building material substrate must be level, stable, dry, clean, dust-free and free from oil, grease, release agents, biological growth or other contaminants that could cause separation.
Note: In particular, all residue from sanding must always be removed!

If required, MB PUReactive / MB PUReactive TX / MB PUReactive+ can be applied as a contact layer at a rate of approx. 500 g/m² on absorbent substrates. Fill depressions > 3 mm with a suitable filler or MB PUReactive / MB PUReactive+ blended with Selectmix 0/10 (mixing ratio 1:3-1:5).

Table 1 on page 9 provides an overview of the substrate preparation measures to be carried out.

Layer thicknesses and consumptions

	Dry layer thickness (mm)	Wet layer thickness (mm)	Consumption (kg/m²)*
MB PUReactive (incl. fabric reinforcement)	> 2,1	> 2,3	> 3,0
MB PUReactive TX (incl. fabric reinforcement)	> 2,1	> 2,3	> 3,0
MB PUReactive+ (without fabric reinforcement)	> 2,0	> 2,2	> 3,7

***Note: Please note the layer thickness allowance in accordance with DIN 18531-3:**
To ensure the minimum dry layer thickness dmin, a layer thickness allowance dz is specified in DIN 18531 Part 3.
This takes into account both the processing-related fluctuations dv and the additional consumption for levelling the substrate
d_u: If the substrate is levelled separately (e.g. by scraping), this du is not included in the calculation.
d_u = Scratch coat or levelling compound approx. 0.5 kg/m² (depending on substrate)
d_v = additive for processing-related fluctuations approx. 0.4 kg/m²

Information on choosing the right primer

You can find detailed information and recommendations on how best to prepare the substrate when using the MB PUReactive family here or at **www.remmers.com**

Table 1 - Substrate preparation

Substrate (type)	Substrate	Step 1	Step 2	Step 3	Step 4
Mineral	Concrete	Sanding			
	Render	Sanding			
	Masonry	Sanding			
	Screed (anhydride/cement)	Sanding			
	Tiles	Sanding			
	Natural stone	Sanding			
Metal	Aluminium, anodised	Thinner V103			
	Aluminium	Thinner V103			
	Stainless steel (e.g. V2A, V4A)	Thinner V103	Sanding	Thinner V103	
	Steel (sheet)	Thinner V103	Sanding	Thinner V103	
	Titanium zinc	Thinner V103			
	Zinc	Thinner V103			
	Lead	Thinner V103			
	Copper	Thinner V103			
Bituminous	Bitumen sheets, slated/sand-coated (mineral content > 60%)	Not applicable			
Other	Wood	Not applicable			
	Plywood	Not applicable			
	Chipboard	Not applicable			
	MDF boards	Not applicable			
	Glass (uncoated)	Thinner V103			
Plastic and elastomer sheets	Alwitra Evalon dual	Thinner V103	Sanding	Thinner V103	
	Alwitra Evalon V	Thinner V103	Sanding	Thinner V103	
	Alwitra Evalon VG	Thinner V103	Sanding	Thinner V103	
	Alwitra Evalon VSK	Thinner V103	Sanding	Thinner V103	
	Bauder Thermofin F15 FPO	Thinner V103	MB PUReactive P-1		
	Bauder Thermofol M PVC	Thinner V103	Sanding	Thinner V103	
	Bauder Thermofol U 15 500 PVC	Thinner V103	Sanding	Thinner V103	
	Bauder Thermoplan T 15 (PW) FPO	Thinner V103	MB PUReactive P-1		
	Extrubit black	Thinner V103	MB PUReactive P-1		
	Firestone Rubberguard EPDM	Thinner V103	MB PUReactive P-1		
	Firestone TPO	Thinner V103	MB PUReactive P-1		
	Flagon eco (FPO)	Thinner V103	Sanding	Thinner V103	MB PUReactive P-1
	Flagon Premio (FPO)	Thinner V103	MB PUReactive P-1		
	Flagon SR (PVC)	Thinner V103			
	Hyperflex FM	Thinner V103			
	Mapeplan M	Thinner V103	Sanding	Thinner V103	
	Mapeplan T	Thinner V103	MB PUReactive P-1		
	OC-Plan 3020	Thinner V103	MB PUReactive P-1		
	Polyfin 3020	Thinner V103	MB PUReactive P-1		
	Rhenofol CG	Thinner V103			
	Rhenofol CV	Thinner V103			
	Rhepanol hfk	Thinner V103	MB PUReactive P-1		
	Rhepanol hg	Thinner V103	Sanding	Thinner V103	MB PUReactive P-1
	Sarnafil TS77 (FPO)	Thinner V103	MB PUReactive P-1		
	Sikaplan SGmAG18	Thinner V103	Sanding	Thinner V103	
	VAEPlan type F	Thinner V103			
	VAEPlan type vs	Thinner V103			

Last updated 11/2022

Substrate preparation

Table 2 - Dew point temperature

Air temp.	Dew point temperature in °C at a relative humidity of											
	30%	40%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%
°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C
+30 °C	+10.5	+14.9	+18.4	+20.0	+21.4	+22.7	+23.9	+25.1	+26.2	+27.2	+28.2	+29.1
+28 °C	+8.8	+13.1	+16.6	+18.1	+19.5	+20.8	+22.0	+23.2	+24.2	+25.2	+26.2	+27.1
+26 °C	+7.1	+11.4	+14.8	+16.3	+17.6	+18.9	+20.1	+21.2	+22.3	+23.3	+24.2	+25.1
+24 °C	+5.4	+9.6	+12.9	+14.4	+15.8	+17.0	+18.2	+19.3	+20.3	+21.3	+22.3	+23.2
+22 °C	+3.6	+7.8	+11.1	+12.6	+13.9	+15.1	+16.3	+17.4	+18.4	+19.4	+20.3	+21.2
+20 °C	+1.9	+6.0	+9.3	+10.7	+12.0	+13.2	+14.4	+15.4	+16.4	+17.4	+18.3	+19.2
+18 °C	+0.2	+4.2	+7.4	+8.8	+10.1	+11.3	+12.5	+13.5	+14.5	+15.4	+16.3	+17.2
+16 °C	-1.5	+2.4	+5.6	+7.0	+8.3	+9.4	+10.5	+11.6	+12.6	+13.5	+14.4	+15.2
+14 °C	-3.3	+0.6	+3.8	+5.1	+6.4	+7.5	+8.6	+9.6	+10.6	+11.5	+12.4	+13.2
+12 °C	-5.0	-1.2	+1.9	+3.3	+4.5	+5.6	+6.7	+7.7	+8.7	+9.6	+10.4	+11.2
+10 °C	-6.8	-3.0	+0.1	+1.4	+2.6	+3.7	+4.8	+5.8	+6.7	+7.6	+8.4	+9.2
+8 °C	-8.5	-4.8	-1.8	-0.5	+0.7	+1.8	+2.9	+3.9	+4.8	+5.6	+6.5	+7.3
+6 °C	-10.2	-6.6	-3.6	-2.3	-1.2	-0.1	+1.0	+1.9	+2.8	+3.7	+4.5	+5.3
+4 °C	-12.0	-8.4	-5.5	-4.2	-3.1	-2.0	-1.0	0.0	+0.9	+1.7	+2.5	+3.3
+2 °C	-13.7	-10.2	-7.3	-6.1	-4.9	-3.9	-2.9	-2.0	-1.1	-0.3	+0.5	+1.3
0 °C	-15.5	-12.0	-9.2	-7.9	-6.8	-5.8	-4.8	-3.9	-3.0	-2.2	-1.4	-0.7
-2 °C	-17.3	-13.8	-11.0	-9.8	-8.7	-7.7	-6.7	-5.8	-5.0	-4.2	-3.4	-2.7
-4 °C	-19.0	-15.6	-12.9	-11.7	-10.6	-9.6	-8.7	-7.8	-6.9	-6.1	-5.4	-4.7

Example:
Air temperature: +16 °C
Relative humidity: 55%
Corresponds to a dew point temperature of +7 °C (condensation forms on the surface at < 7 °C)

When carrying out the work, a surface temperature of at least 3 °C above the dew point temperature must be maintained. If the temperature falls below this, a separating film of moisture may form on the surface.

PREPARATION

Mix the material

MB PUReactive / MB PUReactive TX / MB PUReactive+

① STIR

Use a suitable stirrer (e.g. Collomix DLX) to stir the liquid component.

② ADD POWDER

Loosen the powder component and add all of it to the liquid component. Mix for approx. 1 minute.

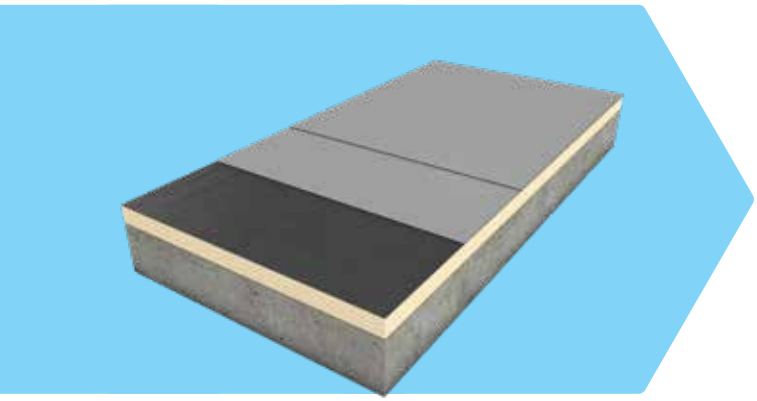
③ MIX AGAIN

Scrape off any material adhering to the edge and continue mixing for approx. 2 minutes.

Attention: To ensure the functionality of the product, the mixing times must be strictly adhered to.

APPLYING WITHOUT FABRIC REINFORCEMENT

Waterproofing
with MB PUReactive+



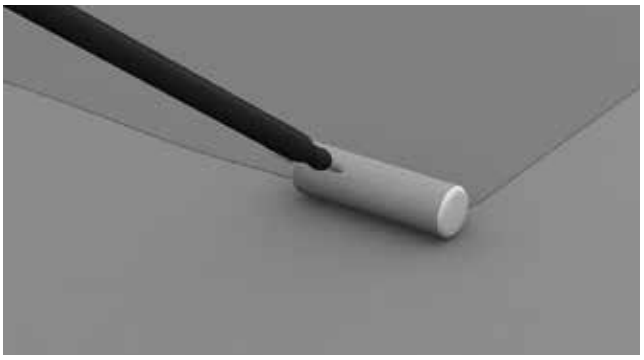
Waterproofing without fabric reinforcement

Structure	Product/details	Application rate (min)*
1 Waterproofing (1. layer)	MB PUReactive+	1.85 kg/m²
2 Waterproofing (2. layer)	MB PUReactive+	1.85 kg/m²

* The layer thickness surcharges in accordance with DIN 18531-3 and the technical data sheet must be observed.

① WATERPROOFING

Apply the first waterproofing layer of MB PUReactive+ to the prepared substrate.



② WATERPROOFING

Apply a second waterproofing layer of MB PUReactive+.

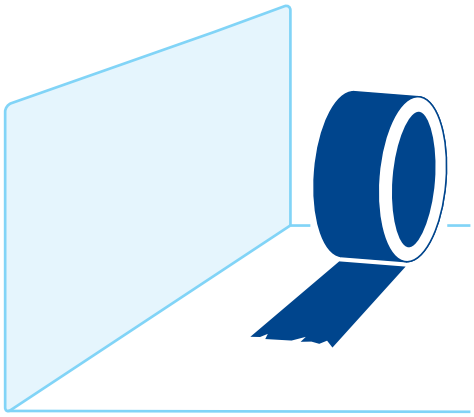
Note: A special agreement is required for flat roof waterproofing without fabric reinforcement outside the field of activity classified as “regeneration”.

Preparation

SAVE TIME WITH OUR SHAPED FABRIC PIECES

MB PUReactive F-series

- Inlay for MB PUReactive and MB PUReactive TX
- Surface weight approx. 110 g/m²
- Various widths available from 0.20 - 1.00 m

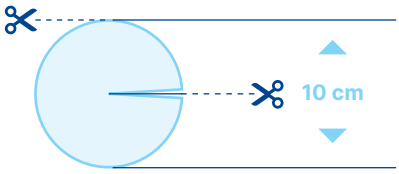


FIRST: CARRY OUT MASKING AND TRIM THE FABRIC

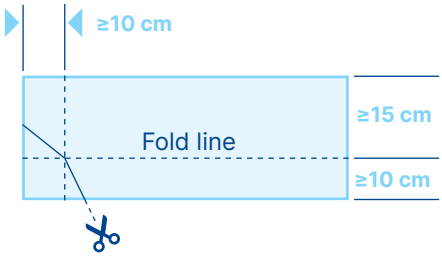
Measure the area to be waterproofed and mask it with adhesive tape. Observe connection heights/widths in accordance with applicable regulations!
Apply the adhesive tape at a distance of approx. 0.5 cm from the trimmed fabric to ensure easy removal of the adhesive tape once the waterproofing work has been completed.

Prepare the trimmed fabric according to the diagrams below <u>before</u> starting the waterproofing work.

Trimming for the internal corner



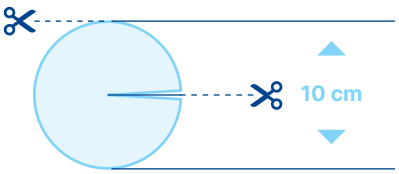
Cut the fabric to a circular shape with a diameter of approx. 10 cm. Cut the fabric shape towards the centre.



Finish according to the diagram.

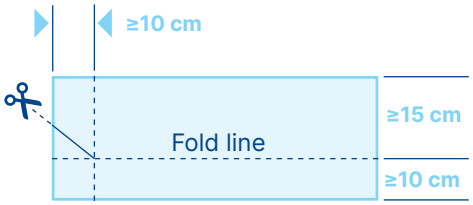
Finish according to the diagram.

Trimming for the external corner

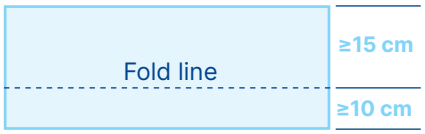


Cut the fabric to a circular shape with a diameter of approx. 10 cm.
Cut the fabric shape towards the centre.

Note: Two trimmed pieces are needed for each external corner.

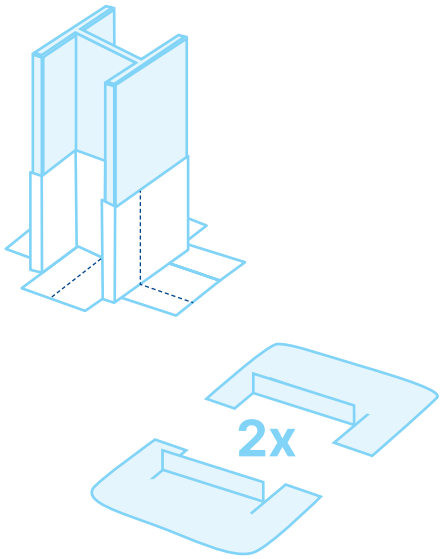


Finish according to the diagram.



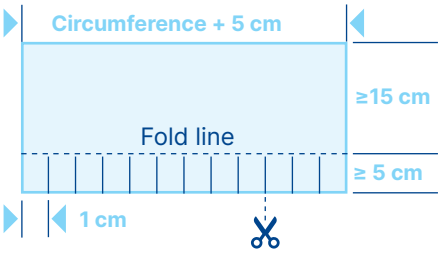
Finish according to the diagram.

Trimming for the double-T beam

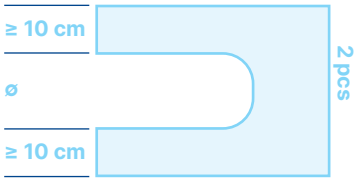


Schematic diagram,
dimensions are derived from the respective profile dimensions.

Trimming for pipe penetrations

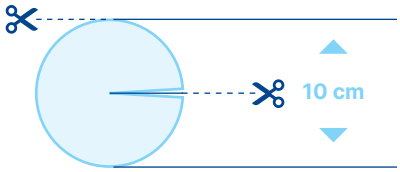


Finish according to the diagram.



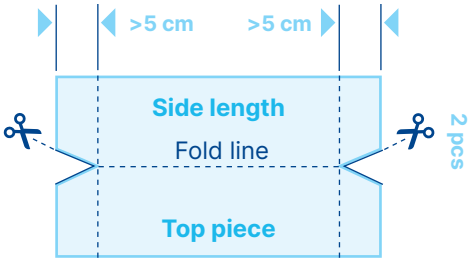
Finish according to the diagram (2 pcs).
The vent must be surrounded by
at least 10 cm of fabric.

Trimming for skylight domes

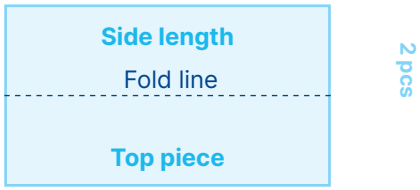


For the outer corners, cut the fabric to a circular shape with a diameter of approx. 10 cm. Cut the fabric shape towards the centre.

Note: Two trimmed pieces are needed for each external corner.

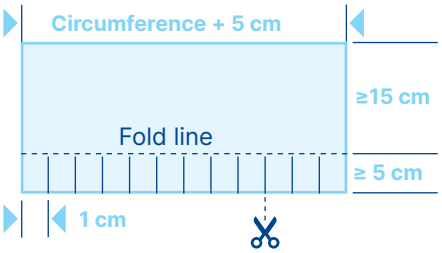


Measure the skylight dome and finish the trimmed fabric piece according to the diagram (2 pcs).

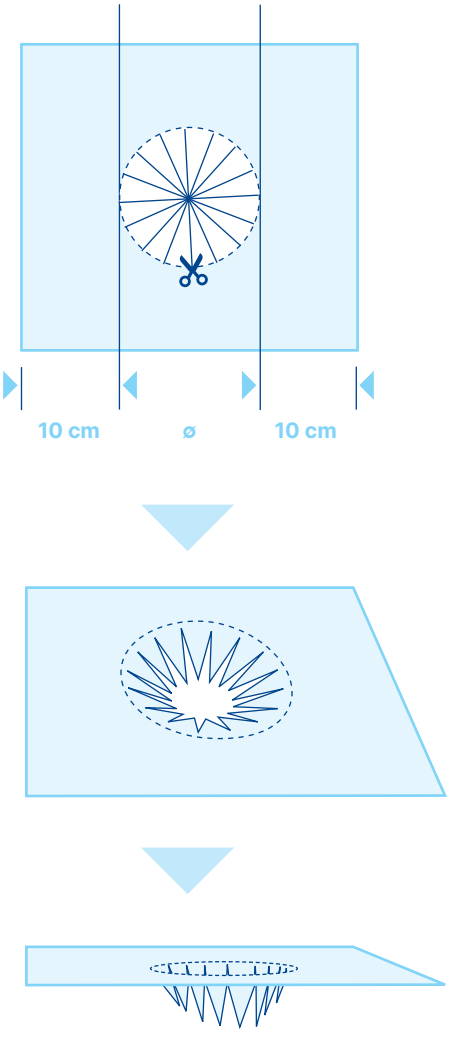


Measure the skylight dome and finish the trimmed fabric piece according to the diagram (2 pcs).

Trimming for drains

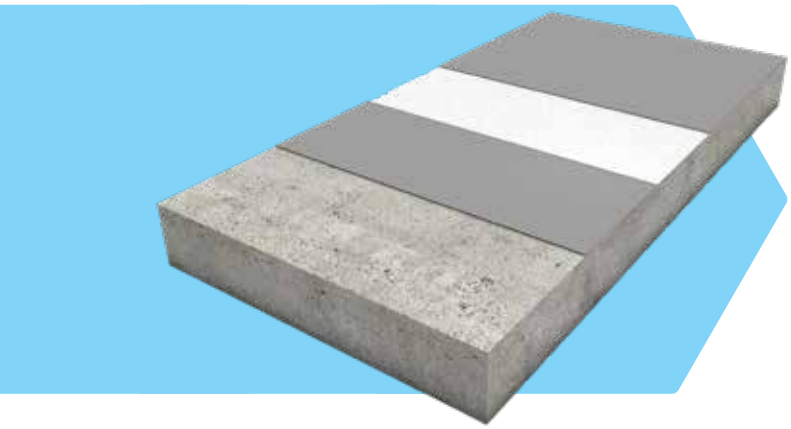


Finish according to the diagram.



Finish according to the diagram.
The drain must be surrounded by at least 10 cm of fabric.

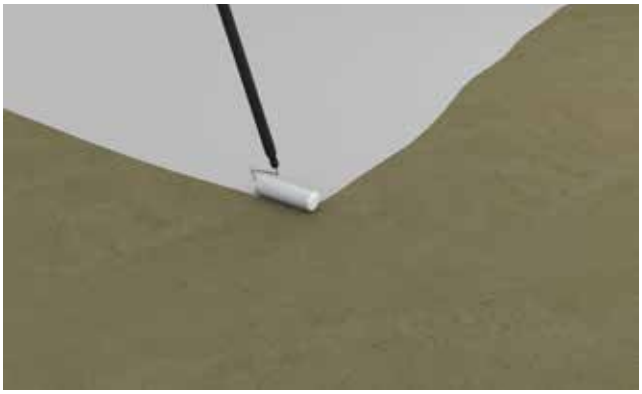
Surface waterproofing
with MB PUReactive



Waterproofing with fabric reinforcement

Structure	Product/details	Application rate (min)*
1 Waterproofing (1st layer)	MB PUReactive	~ 1.50 kg/m²
2 Fabric reinforcement	MB PUReactive F-series	~ 110 g/m²
3 Waterproofing (2nd layer)	MB PUReactive	~ 1.50 kg/m²

* The layer thickness surcharges in accordance with DIN 18531-3 and the technical data sheet must be observed.



① CONTACT LAYER

If required, apply MB PUReactive as a contact layer on absorbent substrates (application rate approx. 500 g/m²).

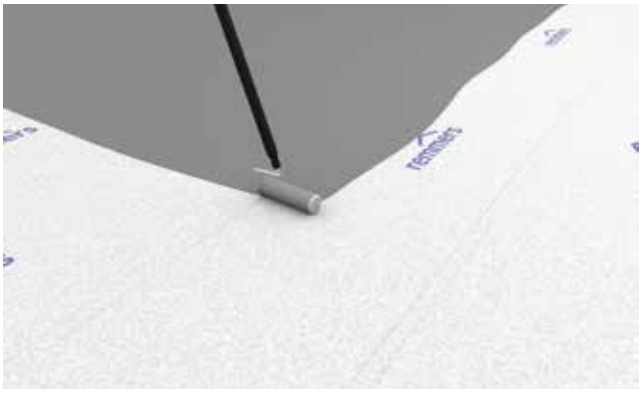
② WATERPROOFING

Apply the first waterproofing layer of MB PUReactive to the prepared substrate.

③ APPLY FABRIC

Embed MB PUReactive F-series fabric with no creases or air pockets, and with an overlap of min. 5 cm fresh in fresh.

Additional material may need to be applied in the overlapping areas to ensure that the fabric is completely saturated.



④ WATERPROOFING

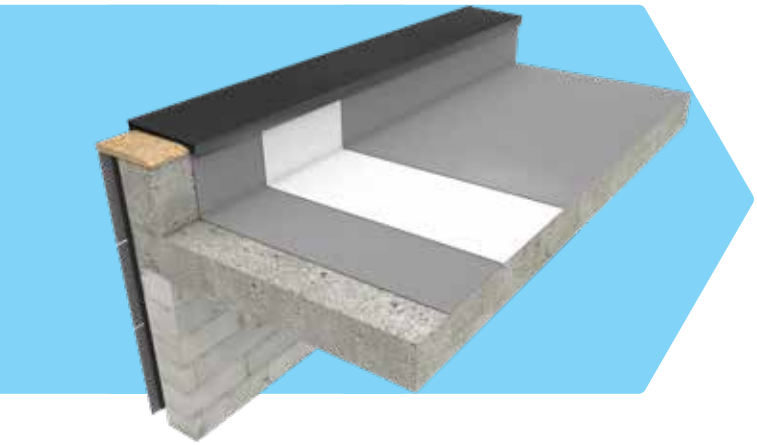
Completely cover the fabric with a second waterproofing layer of MB PUReactive. The total minimum dry film thickness is 2 mm.

Observe connection heights/widths in accordance with applicable regulations!

WATERPROOFING VARIANTS

Wall connections

with MB PUReactive TX



Waterproofing with fabric reinforcement

Structure	Product/details	Application rate (min)*
1 Waterproofing (1st layer)	MB PUReactive TX	~ 1.50 kg/m²
2 Fabric reinforcement	MB PUReactive F-series	~ 110 g/m²
3 Waterproofing (2nd layer)	MB PUReactive TX	~ 1.50 kg/m²

* The layer thickness surcharges in accordance with DIN 18531-3 and the technical data sheet must be observed.

1 CONTACT LAYER

If required, apply MB PUReactive TX as a contact layer on absorbent substrates (application rate approx. 500 g/m²).

2 WATERPROOFING

Apply the first waterproofing layer of MB PUReactive TX to the prepared substrate.

3 EMBEDDING INTERNAL/EXTERNAL CORNERS

If necessary, fit existing internal and external corners with prepared fabric pieces (see page 13/14) or moulded parts from the MB PUReactive F series with no creases or air pockets and cover fresh in fresh with material.

4 APPLY FABRIC

Embed the prepared pieces of MB PUReactive fabric (see page 13/14) with no creases or air pockets, and with an overlap of min. 5 cm fresh in fresh. Additional material may need to be applied in the overlapping areas to ensure that the fabric is completely saturated.

5 WATERPROOFING

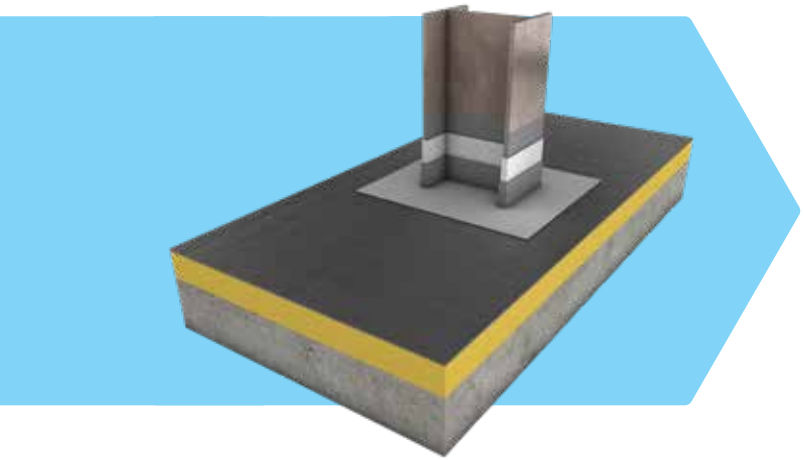
Completely cover the fabric with a second waterproofing layer of MB PUReactive TX reinforcement.

Observe connection heights/widths in accordance with applicable regulations!

WATERPROOFING VARIANTS

Double-T beams

with MB PUReactive TX



Waterproofing with fabric

Structure	Product/details	Application rate (min)*
1 Waterproofing (1st layer)	MB PUReactive TX	~ 1.50 kg/m²
2 Fabric reinforcement	MB PUReactive F-series	~ 110 g/m²
3 Waterproofing (2nd layer)	MB PUReactive TX	~ 1.50 kg/m²

* The layer thickness surcharges in accordance with DIN 18531-3 and the technical data sheet must be observed.

① CONTACT LAYER

If required, apply MB PUReactive TX as a contact layer on absorbent substrates (application rate approx. 500 g/m²).

② WATERPROOFING

Apply the first waterproofing layer of MB PUReactive TX to the prepared substrate and double-T beam (see priming recommendation on p. 9).

③ APPLY FABRIC REINFORCEMENT

Embed the prepared pieces of MB PUReactive fabric (see page 14) with no creases or air pockets fresh in fresh. In transition areas, the fabric must overlap by at least 5 cm and, if necessary, additional material must be provided to ensure complete saturation.

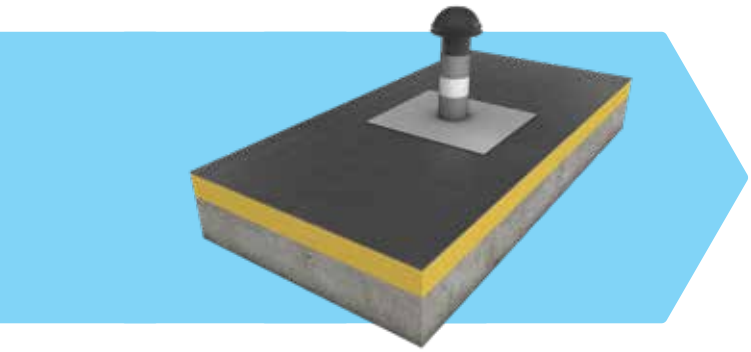
④ WATERPROOFING

Completely cover the fabric with a second waterproofing layer of MB PUReactive TX.

Observe connection heights/widths in accordance with applicable regulations!

Flat roof vents

with MB PUReactive TX



Waterproofing with fabric reinforcement

Structure	Product/details	Application rate (min)*
1 Waterproofing (1st layer)	MB PUReactive TX	~ 1.50 kg/m²
2 Fabric reinforcement	MB PUReactive F-series	~ 110 g/m²
3 Waterproofing (2nd layer)	MB PUReactive TX	~ 1.50 kg/m²

* The layer thickness surcharges in accordance with DIN 18531-3 and the technical data sheet must be observed.

① CONTACT LAYER

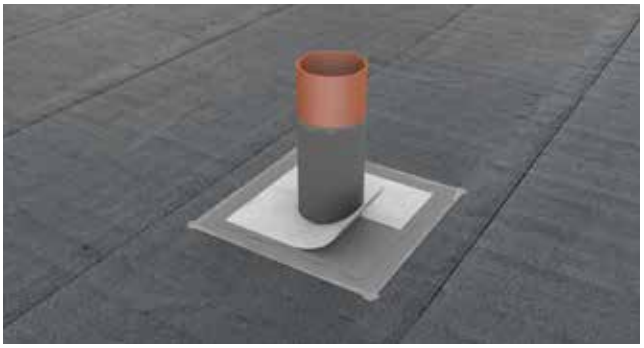
If required, apply MB PUReactive TX as a contact layer on absorbent substrates (application rate approx. 500 g/m²).

② WATERPROOFING

Apply the first waterproofing layer of MB PUReactive TX to the prepared substrate and vent (see priming recommendation).

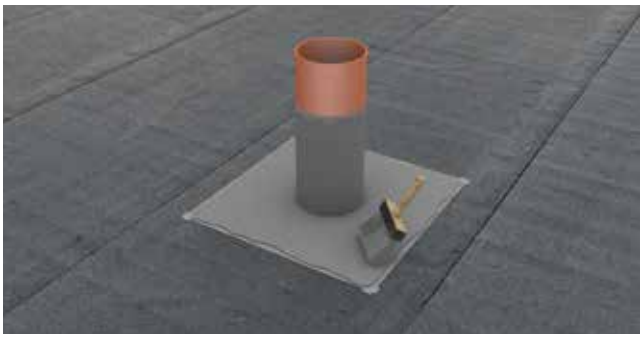
③ FABRIC PIECES AND WATERPROOFING

Embed the prepared pieces of MB PUReactive F-series fabric (see page 15) as sleeves with no creases or air pockets and cover with MB PUReactive TX fresh in fresh.



④ FABRIC PIECES

Embed the two prepared pieces of MB PUReactive F-series fabric (see page 15) with no creases or air pockets fresh in fresh. In transition areas, the fabric must overlap by at least 5 cm and, if necessary, additional material must be provided to ensure complete saturation.



⑤ WATERPROOFING

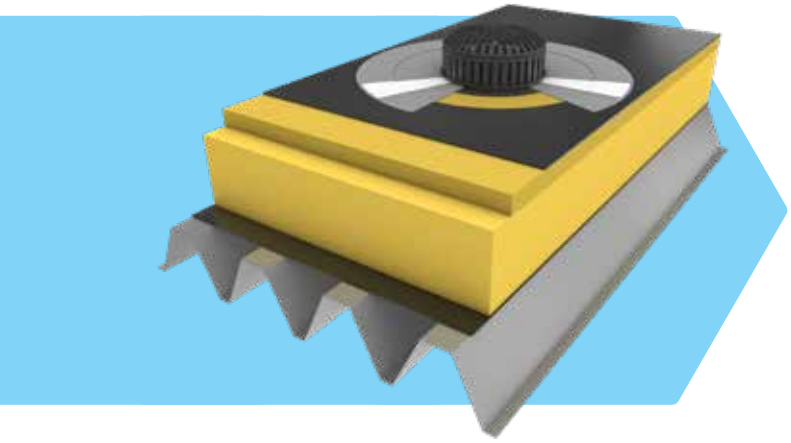
Completely cover the fabric with a second waterproofing layer of MB PUReactive TX.

Observe connection heights/widths in accordance with applicable regulations!

WATERPROOFING VARIANTS

Flat roof drainage

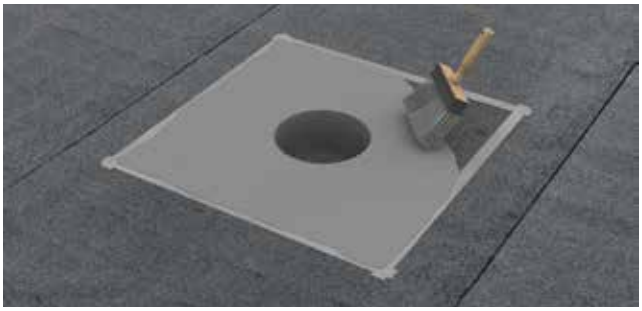
with MB PUReactive TX



Waterproofing with fabric reinforcement

Structure	Product/details	Application rate (min)*
1 Waterproofing (1st layer)	MB PUReactive TX	~ 1.50 kg/m²
2 Fabric reinforcement	MB PUReactive F-series	~ 110 g/m²
3 Waterproofing (2nd layer)	MB PUReactive TX	~ 1.50 kg/m²

* The layer thickness surcharges in accordance with DIN 18531-3 and the technical data sheet must be observed.



① CONTACT LAYER

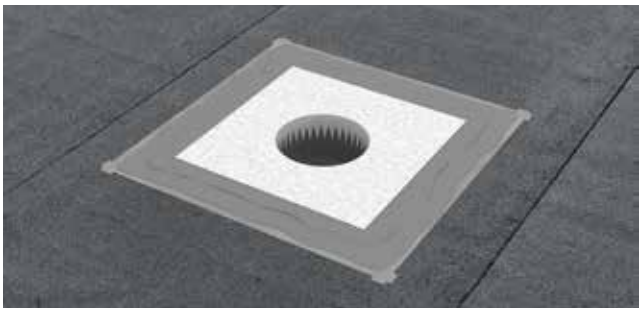
If required, apply MB PUReactive TX as a contact layer on absorbent substrates (application rate approx. 500 g/m²).

② WATERPROOFING

Apply the first waterproofing layer of MB PUReactive TX to the prepared substrate.

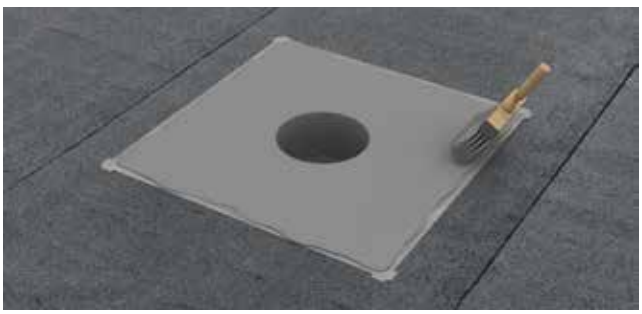
③ FABRIC PIECES

Embed the prepared pieces of MB PUReactive F-series fabric (see page 16) as sleeves with no creases or air pockets and cover with MB PUReactive TX fresh in fresh.



④ FABRIC PIECE

Embed the prepared piece of MB PUReactive F-series fabric (see page 16) with no creases or air pockets fresh in fresh. In transition areas, the fabric must overlap by at least 5 cm and, if necessary, additional material must be provided to ensure complete saturation.



⑤ WATERPROOFING

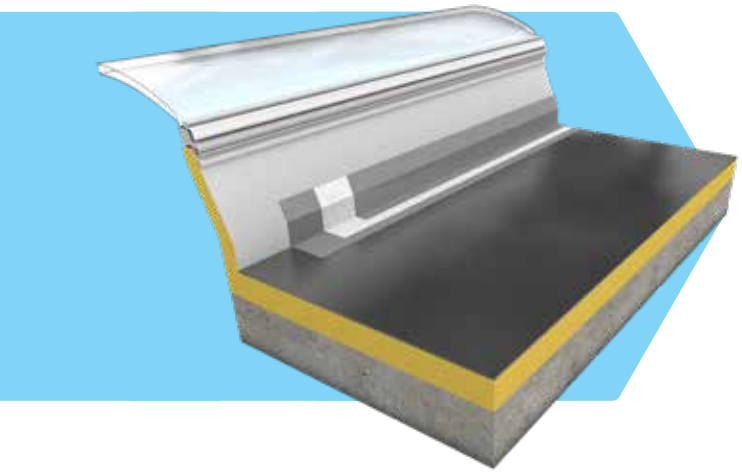
Completely cover the fabric with a second waterproofing layer of MB PUReactive TX.

Observe connection heights/widths in accordance with applicable regulations!

WATERPROOFING VARIANTS

Skylight domes

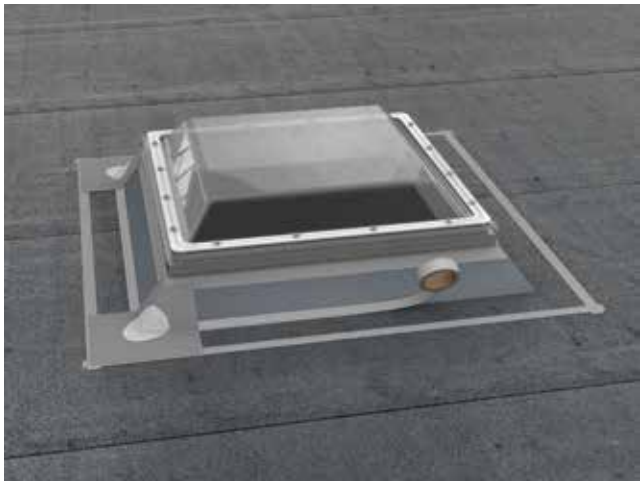
with MB PUReactive TX



Waterproofing with fabric

Structure	Product/details	Application rate (min)*
1 Waterproofing (1st layer)	MB PUReactive TX	~ 1.50 kg/m²
2 Fabric reinforcement	MB PUReactive F-series	~ 110 g/m²
3 Waterproofing (2nd layer)	MB PUReactive TX	~ 1.50 kg/m²

* The layer thickness surcharges in accordance with DIN 18531-3 and the technical data sheet must be observed.



1 DECOUPLING

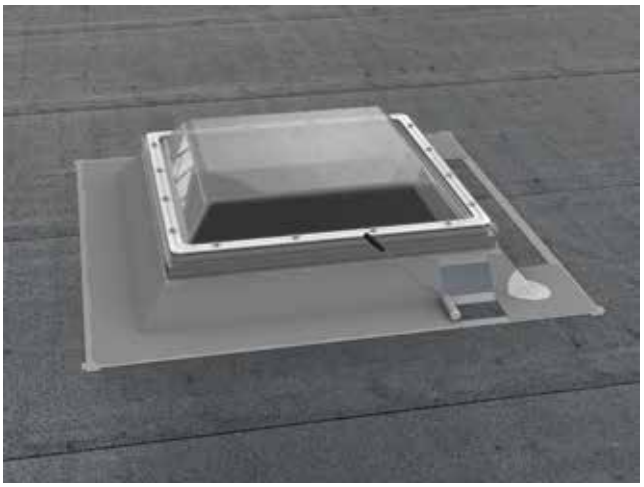
Adhere kip® 328 extra fabric tape (art. no. 4280) to the transition from the substrate to the skylight as decoupling.

2 CONTACT LAYER

If required, apply MB PUReactive TX as a contact layer on absorbent substrates (application rate approx. 500 g/m²).

3 MATERIAL BASE

Roll MB PUReactive TX onto the prepared substrate and skylight dome (see primer recommendation) as a material base for the fabric.



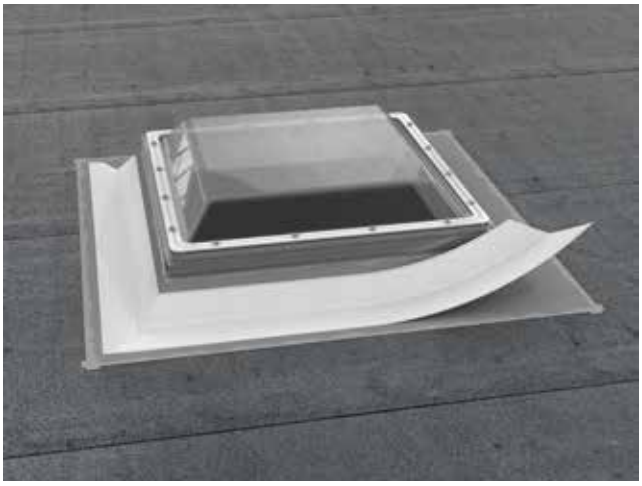
4 FABRIC PIECES FOR EXTERNAL CORNERS

Then apply the trimmed pieces of MB PUReactive F-series fabric (see page 13/14) to the external corners with no creases or air pockets fresh in fresh.

5 WATERPROOFING WITH FABRIC REINFORCEMENT

Apply the first waterproofing layer of MB PUReactive TX to the prepared substrate and skylight dome (see priming recommendation). Fully cover the fabric.

Observe connection heights/widths in accordance with applicable regulations!

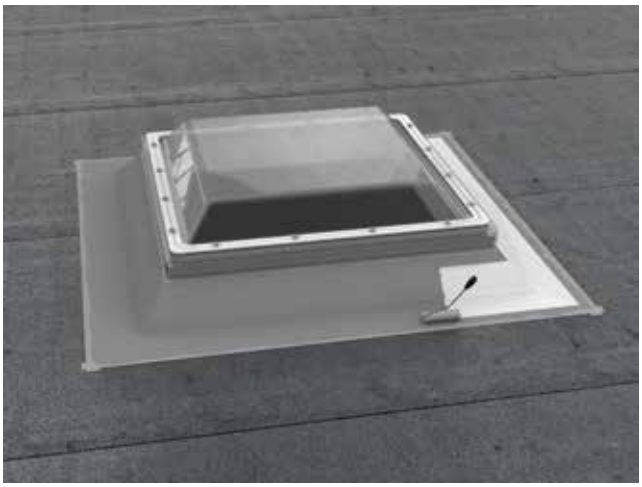


⑥ FABRIC PIECES

Place the fabric pieces (p. 15) on opposing sides with no creases or air pockets and with an overlap of min. 5 cm fresh in fresh. Additional material may need to be applied to ensure full saturation.

⑦ FABRIC PIECES

Then position the fabric pieces (see page 15) on the sides that are still open. Seal the overlap areas with the waterproofing material.



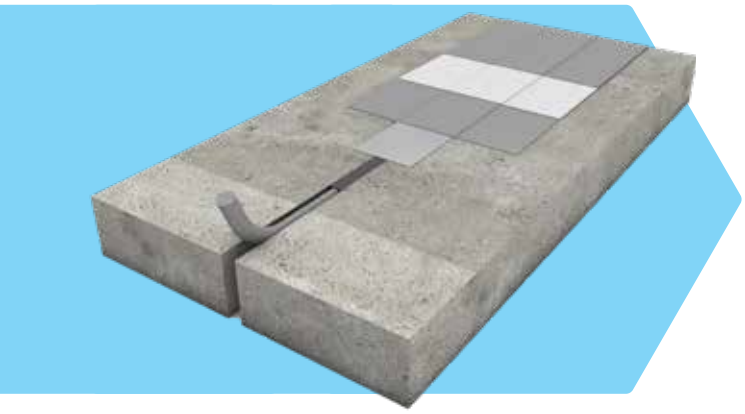
⑧ WATERPROOFING

Completely cover the fabric with a second waterproofing layer of MB PUReactive TX.

WATERPROOFING VARIANTS

Movement joints

with MB PUReactive



Waterproofing with fabric

Structure	Product/details	Application rate (min)*
1 Joint backfilling	Round Cord	as needed
2 Waterproofing (1st layer)	MB PUReactive	~ 1.50 kg/m²
3 Fabric reinforcement	MB PUReactive F-series	~ 110 g/m²
4 Waterproofing (2nd layer)	MB PUReactive	~ 1.50 kg/m²

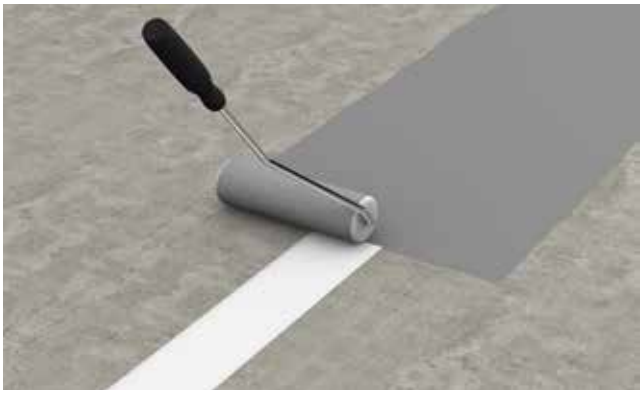
* The layer thickness surcharges in accordance with DIN 18531-3 and the technical data sheet must be observed.

① CONTACT LAYER

If required, apply MB PUReactive as a contact layer on absorbent substrates (application rate approx. 500 g/m²).

② JOINT BACKFILLING

Prepare the substrate according to the primer recommendation. Insert Round Cord and decouple the joint using fabric tape (art. no. 4280). The decoupling must be at least 5 cm beyond the joint on both sides.



③ WATERPROOFING

Apply the first waterproofing layer of MB PUReactive to the prepared substrate and to the decoupling. A width of at least 10 cm must be retained in the waterproofing layer for the connection.

④ APPLY FABRIC REINFORCEMENT

Embed MB PUReactive F-series fabric with no air pockets or creases fresh in fresh. In transition areas, the fabric must overlap by at least 5 cm and, if necessary, additional material must be provided to ensure complete saturation.

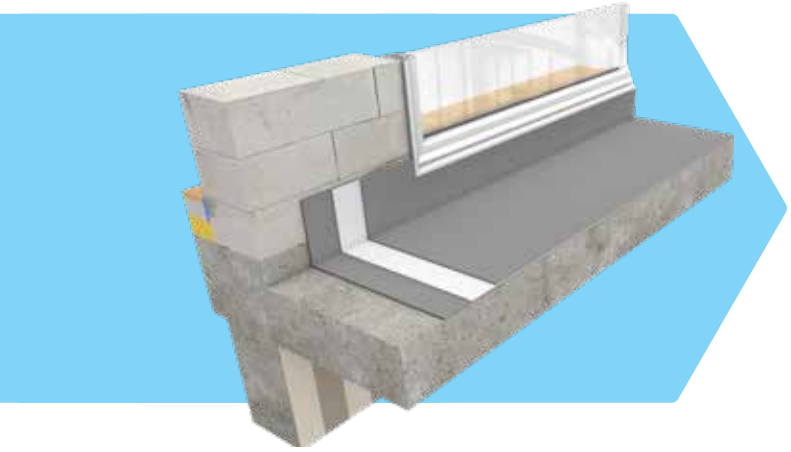
⑤ WATERPROOFING

Completely cover the fabric with a second waterproofing layer of MB PUReactive.

Observe connection heights/widths in accordance with applicable regulations!

Floor-to-ceiling windows and doors

with MB PUReactive TX



Waterproofing with fabric

Structure	Product/details	Application rate (min)*
1 Waterproofing (1st layer)	MB PUReactive TX	~ 1.50 kg/m²
2 Fabric reinforcement	MB PUReactive F-series	~ 110 g/m²
3 Waterproofing (2nd layer)	MB PUReactive TX	~ 1.50 kg/m²

* The layer thickness surcharges in accordance with DIN 18531-3 and the technical data sheet must be observed.

① CONTACT LAYER

If required, apply MB PUReactive TX as a contact layer on absorbent substrates (application rate approx. 500 g/m²).

② WATERPROOFING

Apply the first waterproofing layer of MB PUReactive TX to the prepared substrate.

③ APPLY FABRIC REINFORCEMENT

Embed MB PUReactive F-series fabric with no air pockets or creases fresh in fresh. In transition areas, the fabric must overlap by at least 5 cm and, if necessary, additional material must be provided to ensure complete saturation.

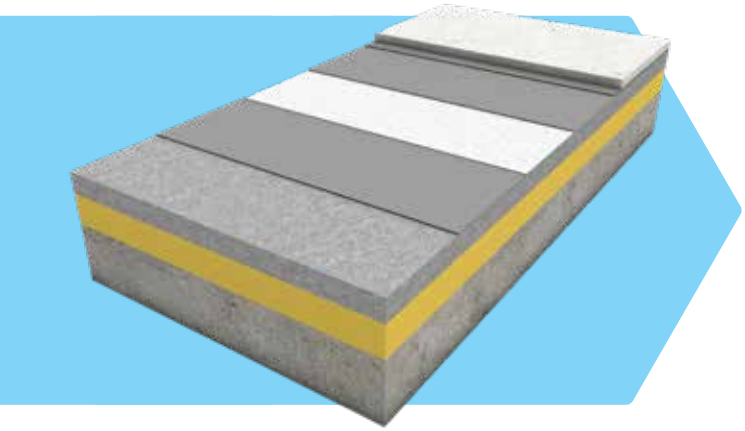
④ WATERPROOFING

Completely cover the fabric with a second waterproofing layer of MB PUReactive TX.

Observe connection heights/widths in accordance with applicable regulations!

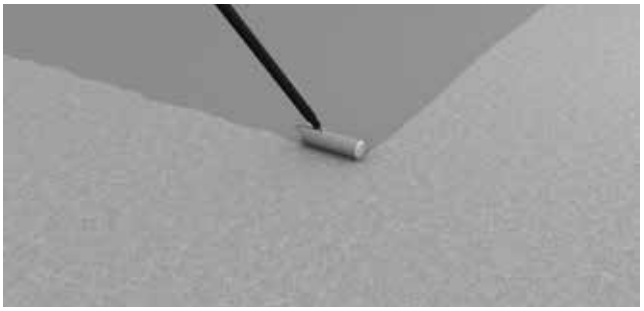
Waterproofing under tiles

with MB PUReactive



Structure	Product/details	Application rate (min)*
1 Waterproofing (1st layer)	MB PUReactive	~ 1.50 kg/m²
2 Fabric reinforcement	MB PUReactive F-series	~ 110 g/m²
3 Waterproofing (2nd layer)	MB PUReactive	~ 1.50 kg/m²
4 Tile cement (alternative:)	MB FL 2K FL Fix	approx. 1.3 kg/m²/mm approx. 1.1 kg/m²/mm

* The layer thickness surcharges in accordance with DIN 18531-3 and the technical data sheet must be observed.



① CONTACT LAYER

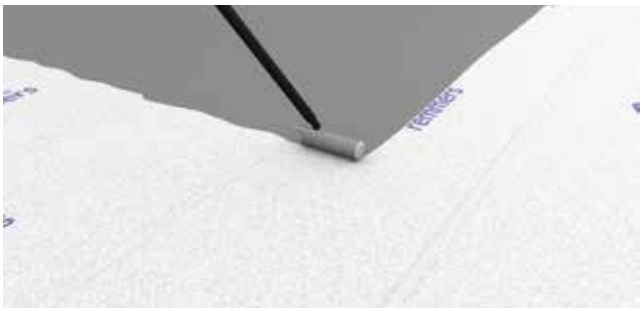
If required, apply MB PUReactive as a contact layer on absorbent substrates (application rate approx. 500 g/m²).

② WATERPROOFING

Apply the first waterproofing layer of MB PUReactive to the prepared substrate.

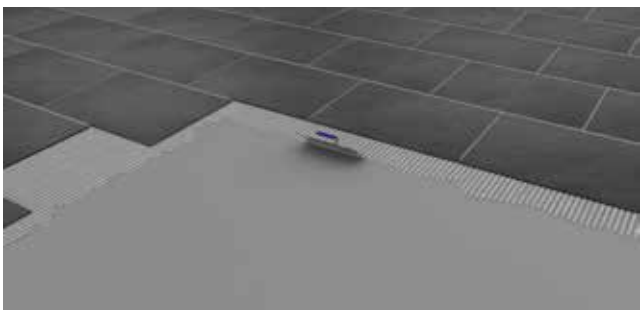
③ APPLY FABRIC REINFORCEMENT

Embed MB PUReactive F-series fabric with no air pockets or creases fresh in fresh. In transition areas, the fabric must overlap by at least 5 cm and, if necessary, additional material must be provided to ensure complete saturation.



④ WATERPROOFING

Completely cover the fabric with a second waterproofing layer of MB PUReactive.



⑤ TILE CEMENT

Once the waterproofing is completely dry, apply MB FL 2K tile cement (alternatively: FL fix tile cement) and lay the tiles. The Technical Data Sheet of the selected tile cement must be observed when bonding the tiles.

Observe connection heights/widths in accordance with applicable regulations!

Choosing the right application techniques

Manual application

The products of the MB PUReactive family should be applied to the prepared substrate using a suitable tool (roller, flat brush, paintbrush and trowel).

When using the reinforcing fabric from the MB PUReactive F-series, it must be ensured that it is embedded properly in the material, with no air bubbles, and is covered completely. The fabric must be embedded with an overlap of min. 5 cm.

The layer thickness must be selected depending on the use case and product. The working temperature must be between min. +5 °C and max. +40 °C. The maximum total wet film thickness must not exceed 3 mm. The fresh waterproofing must be protected against rain, frost and condensation. Direct sunlight and/or wind can cause accelerated skin formation on liquid-applied waterproofing materials.

Machine application

For application to large areas, we recommend using suitable machine technology.
Various types of conveying systems can be used:

Peristaltic pump,
e.g. INOTEC (inoBEAM M8)
Airless sprayer,
e.g. Wagner HC 970,
GRACO (DutyMax EH/GH 300 HD)

The product must be mixed separately beforehand and then fed to the machine technology.

If using a sprayer, at least 2 applications of the waterproofing are required. The more frequently subsequent spray applications are applied, the finer the resulting surface finish. This method also promotes faster drying. The maximum layer thickness should not exceed 2 mm per spray application. This ensures an even finish.

Need help with application?

Our Remmers Technical Service team would be happy to advise you on machine processing and offer tips and tricks on how to achieve the best results. You can get in touch with our team via our **service hotline: +49 (0) 54 32/83-900**

Products used

WATERPROOFING

MB PUReactive
Hybrid waterproofing for flat roofs and balconies
Art. no. 3003

MB PUReactive TX
Stable hybrid waterproofing for flat roofs and balconies
Art. no. 2980

MB PUReactive+
Fibre-reinforced hybrid waterproofing for flat roofs and balconies
Art. no. 2982

PRIMER

MB PUReactive P-1
1K primer for plastic and elastomer sheets
Art. no. 4150

FABRIC REINFORCEMENT

MB PUReactive F
Reinforcement inlay in MB PUReactive and MB PUReactive TX
Art. no. 4020

ADHESIVE TAPE

Fabric tape kip® 328 extra
Art. no. 4280

Products used

THINNING AND CLEANING AGENTS

V 103
Cleaning and thinning agent
Art. no. 5699

FILLER MIXTURE

Selectmix 0/10
Filler mixture with special aggregate grading curve
Art. no. 6750

ACCESSORIES

Collomix® stirrer DLX
Art. no. 4298/4286

Collomix® stirrer LX
Art. no. 4297

Round Cord
Highly elastic, closed-cell PE foam strands
Art. no. 4260

Collomix® HEXAFIX® adapter
Art. no. 4283

ACCESSORIES

Remmers Quirlex
Cleaning bucket
Art. no. 4282

Flat brush
Art. no. 4540

KANA® KanaClassic corner brush/ flat brush
Art. no. 4541/4611/4612

Pro nylon roller
Art. no. 5045/5049/5040

Roller handle
Art. no. 4449/4445

Telescopic handle
Art. no. 4391/4392

1125/02.25 EN

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Subject to changes. The current version of the applicable Technical Data Sheet is relevant for legal matters.
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