



ROCK SOLID CONNECTIONS



Building Protection Compass

Step by step to a dry basement - in new construction and renovation!

DIN 18533 / Vertical / Horizontal / Base / Floor slab waterproofing / Rear Moisture protection











BORNIT® Waterproofing products









Priming

Basement Primer	20/26/37
Stick Emulsion	21/26/37
Speedbit-Primer	36/37

Formation of hollow fillets

Triangle Tape	15/20/33/38
Sealing Mortar	15/20/26/33/38
Repabit	33

Thick bitumen coatings

1C (Bitumen Thick Coating)	22/23/39
2C (Bitumen Thick Coating)	
2C Flex (Bitumen Thick Coating)	22/23/39
Profi 1C Express	22/23/38
Profi Hvbrid 2C14/21/22	

Pipe seals Reinforcement inserts Sealing tapes

EasyPipe	15/21/34/41
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Formation of the hollow fillet Waterproofing of penetrations Waterproofing of expansion joints

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Please observe:

The present brochure includes BORNIT® product and system recommendations. The users themselves shall be obliged to observe the relevant standards, regulations and technical rules and to inform themselves about possible modifications. Illustrations and sketches are for illustrative purposes and do not represent detailed or implementation planning; adjustments to the respective object must be made. Any details given correspond to the technical state of the art upon printing. We reserve the right to changes. Current information can be retrieved from our Internet page www.bornit.com. The Technical Datasheet and the Safety Datasheet available there shall be decisive for proper handling of the products!





Definition of terms

Water impact classes according DIN 18533

Effectiveness and longevity of the waterproofing of building structures depend on a variety of factors.

Thus, the static, structural, building physics and usespecific requirements must be taken into account in advance.

When planning the waterproofing, the design water level (HGW; HHW) should be known. Without this knowledge, it should be set at the ground level (GOK).

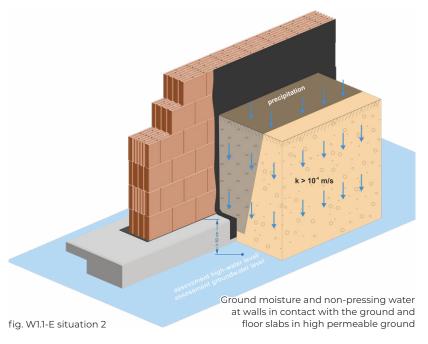
If drainage is specified for slightly permeable ground, then it must be checked in advance, how the accumulating drainage water can be securely drained, since many municipalities specify a prohibition for drainage water discharge in their wastewater regulations.

Furthermore, a coordinated product system for waterproofing of foundations as well as proper substrate preparation and processing are decisive.

W1-E Ground moisture and non-pressing water

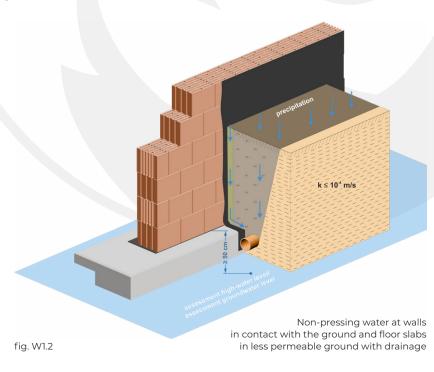
The minimum water impact on a building structure in contact with the ground is soil moisture and is present with highly permeable soil (k > 10-4 m/s). With little permeable soil, the same water impact class can be achieved with drainage. Accordingly, there is a distinction between W1.1-E and W1.2-E.

W1.1-E is present, when precipitation or surface water, resp., seeps down to at least 50 cm below the sealing level and also cannot accumulate temporarily (at least 50 cm above the assessment water level).



W1-E Ground moisture and non-pressing water

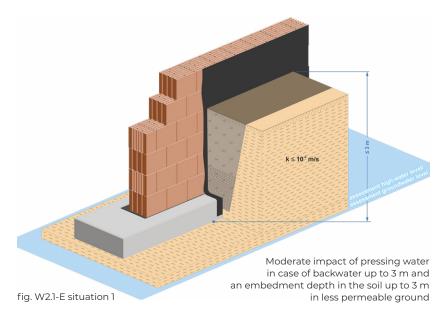
W1.2-E is present, when little water-permeable building ground ($k \le 10-4$ m/s) is present and the sealing level lies at least 50 cm above the assessment water level. It must be ensured that incidental water is diverted away from the building structure by functional drainage according to DIN 4095. Thus, backwater is avoided permanently.



W2-E Pressing water

If backwater, groundwater or high water affects the building structure, then water impact class W2-E is present. There is a distinction between moderate impact (W2.1-E) with a max. hydrostatic water pressure of up to 3 m and high impact (W2.2-E) with a water column of more than 3 m.

W2.1-E is classified into three situations – depending on the type of water impact (backwater, groundwater or high water, resp.).





Definition of terms

Water impact classes according DIN 18533

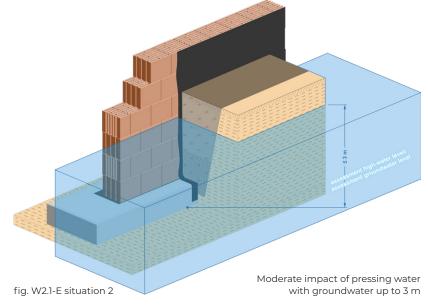
W2-E Pressing water

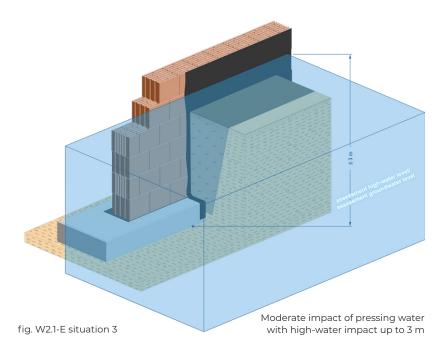
W2.2-E is present, when the building ground is little water-permeable and the foundation depth of the component is > 3 m.

The water impact class W2.2-E distinguishes 2 situations:

Situation 1: the groundwater and high-water levels lie below the foundation depth.

Situation 2: the groundwater and high-water levels lie above 3 m of foundation depth.

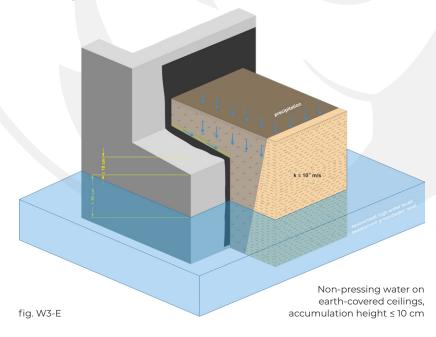




W3-E Non-pressing water on earth-covered ceilings

This water impact must be anticipated, when precipitation or seepage water affects an earth-covered ceiling structure without traffic load and seeps down to the sealing through the water-permeable soil cover. Drainage takes place on the sealing with only little formation of backwater, e.g. with suitable drainage measures or respective gradients. The impacting quantity of water can be considerably increased by adjacent vertical components, as e.g. façades, and must be respectively considered upon planning.

The sealing of an earth-covered ceiling must be designed against an impact from non-pressing water (sealing level ≥ 30 cm of assessment high-water level/assessment groundwater level), wherein an accumulation height of 10 cm must not be exceeded. Otherwise, the sealing must be designed according to W2-E.





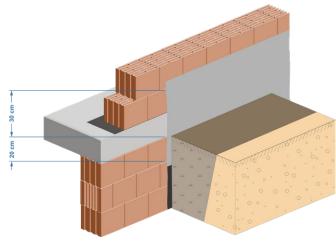
Definition of terms

Water impact classes according DIN 18533

W4-E Splash water at the wall base as well as capillary water in and below walls

At the wall base, splash and seepage water have an impact on the base's surfaces, floor slabs or foundations. Via the floor slab, water can rise through capillaries and thus reach outer as well as inner walls.

In case of a wall base with double-shell masonry, precipitation water running off can seep into the space between the shells. These impacts require base point, base and cross-section sealing. At the wall base, W4-E must be assumed in the area from approx. 20 cm below ground surface to approx. 30 cm above ground surface, should W2-E not be present with the assessment water fig. W4-E level or due to undrained, little waterpermeable in-situ soil.



Water at the wall base, single-shell masonry, built with a cellar

Crack-bridging classes / Space utilisation classes

Crack classes and crack-bridging classes

Crack class	Crack formation / change of crack width after application of the sealing	Crack-bridging class of the sealing type
R1-E (low)	≤ 0,2 mm	RÜ1-E, crack bridging up to 0,2 mm
R2-E (moderate)	≤ 0,5 mm	RÜ2-E, crack bridging up to 0,5 mm
R3-E (high)	≤ 1,0 mm; crack shift ≤ 0,5 mm	RÜ3-E, crack bridging up to 1,0 mm crack shift ≤ 0,5 mm
R4-E (very high)	≤ 5,0 mm; crack shift ≤ 2,0 mm	RÜ4-E, crack bridging up to 5,0 mm crack shift ≤ 2,0 mm

PMBC correspond to crack bridging class RÜ3-E. So they can be used on all surfaces up to crack class R3-E.

Space utilisation classes

Space utilisation class	Requirement for dryness of the room air of rooms sealed on the earth side	Examples
RN1-E	low requirement	underground parking garage open factory and storage hall
RN2-E	average requirement	cellar or warehouse in usual residential and office buildings; lounges
RN3-E	high requirement	rooms for the storage of irreplaceable cultural assets; room for central computer

PMBC may be used for all space utilisation classes.





Definition of terms

Water impact classes according DIN 18533

Water impact class	Type of water impact	Assessment water level (assessment ground- water level or assessment high-water level, resp.) / hydrostatic pressure	Embed- ment depth	Water permeability coefficient of the building ground	Drainage accor- ding to DIN 4095
W1-E – Ground moisture and non-pressing water	non-pressing wate	.			
W1.1-E – Ground moisture and non-pressing water at floor slabs & walls in contact with the ground	d non-pressing wat	er at floor slabs & walls in cor	ntact with the	ground	
W1.1-E, situation 1 Ground moisture at floor slabs	Ground moisture	Lower edge of sealing level ≥ 50 cm above assessment groundwater level / assess- ment high-water level	1	k > 10⁴ m/s	0 C
W1.1-E, situation 2 Ground moisture and non-pressing water at walls in contact with the ground and floor slabs	Ground moisture and non-pressing water	Lower edge of sealing level ≥ 50 cm above assessment groundwater level / assess- ment high-water level	any	k > 10 ⁻⁴ m/s	OL
W1.2-E – Ground moisture and non-pressing water at floor slabs & walls in contact with the ground with drainage	ıd non-pressing wa	ter at floor slabs & walls in co	ontact with th	e ground with	drainage
W1.2-E non-pressing water at walls in contact with the ground and floor slabs	non-pressing water	Lower edge of sealing level ≥ 50 cm above assessment groundwater level / assess- ment high-water level	any	k ≤ 10 ⁻⁴ m/s	yes
W2-E – pressing water (pressing water from the outside: groundwater, high water, backwater) at walls in contact with the ground and floor slabs	ing water from the	outside: groundwater, high v	water, backwa	ater) at walls in	contact
W2.1-E – moderate impact of pressing water	pressing water				
W2.1-E, situation 1 moderate impact of pressing water	Backwater	hydrostatic pressure ≤ 3 m	max.3 m into the ground	k ≤ 10-4 m/s	0.0
W2.1-E, situation 2 moderate impact of pressing water	Groundwater	hydrostatic pressure ≤ 3 m	any	1	00
W2.1-E, situation 3 moderate impact of pressing water	High water	hydrostatic pressure ≤ 3 m	max.3 m into the ground	any	ou

W2.2-E – high impact of pre	of pressing water				
<i>W2.2-E, Situation 1</i> High impact of pressing water	Backwater	Hydrostatic pressure > 3 m	any	k ≤ 10-4 m/s	no
<i>W2.2-E, Situation 2</i> High impact of pressing water	Ground- and High water	Hydrostatic pressure > 3 m	any	any	0
W3-E – Non-pressing water on earth-covered ceiling areas	on earth-covered ce	iling areas			
<i>W3-E</i> Non-pressing water on earth-covered ceiling areas	Precipitation water, backwater ≤ 100 mm	Sealing level ≥ 30 cm above assessment groundwater level / assessment highwater level		ı	related to the object
W4-E – Splash water at the v	vall base as well as	W4-E – Splash water at the wall base as well as capillary water in and below walls in contact with the ground	walls in conta	ct with the gro	pun
<i>W4-E</i> Water at the wall base as well as in and below walls	Splash, surface and seepage wa- ter, water rinsing in capillaries	Wall base: at approx. 0.2 m below to approx. 0.3 m above ground surface, if conditions of W2-E are not present		k > 10 ⁻⁴ m/s k ≤ 10 ⁻⁴ m/s	no yes

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Waterproofing undertaken by water impact class:	Execution of waterproofing with polymer-modified bitumen thick coatings:	Minimum dry layer thickness:
W1-E W4-E	2 layers <u>without</u> reinforcement insert (layers can be applied fresh on fresh)	3 mm
W2.1-E W3-E	2 layers <u>with</u> reinforcement insert (prior to application of the 2nd waterproofing layer, the 1st water-proofing layer must have dried off sufficiently, so that it is not damaged by the subsequent application)	4 mm



Documentation Form

current version of DIN 18533

For the production of waterproofing with polymer modified bituminous thick coatings (PMBC)

Object data	Executing company: _					
	Installer / employee:					
	Building project:					
	Client:					
	Date / Daily Report No).:				
Weather 1st layer	Air temperature in °C			Substrate tempera	ture in °C	
	Humidity in %	<u> </u>		rainy	sunny c	loudy
Weather 2 nd layer	Air temperature in °C			Substrate tempera	ture in °C	
	Humidity in %			rainy	sunny c	cloudy
Progress in construction	Basement walls			basement ceiling	Ground floor slab	roof
Embedding depth of the structure into the ground	_	m				
Ground / subsoil according to subsoil expertise / planning requirements	permeable (e.g. gravel / sand)		less permeable (e.g. clay / loam)		water management system	
Drainage according to DIN 4095	exists		planned accord. to Bill of Quant.		non accord. to Bill of Quant.	
Water impact class	W1.1-E, Situation 1 Lower edge waterpr ≥ 50 cm above ground high water level Ground floor slabs (highly perme	dwater level / I moisture for	W1.1-E, Situation 2 Lower edge waterp ≥50 cm above groundw water level Ground r pressing water fo contact with the ground slabs (highly permeable	aterlevel/high moisture non- r walls in und and floor	W1.2-E Lower edge waterproduce ≥ 50 cm above ground level / high water level woisture/non-pression walls in contact with the and floor slabs (only slabs) meable ground with according to DIN 4095	oundwater el Ground g water for he ground ightly per- drainage
	W2.1-E, Situation 1 Backwater up to 3 m Embedding depth ma W3-E		W2.1-E, Situation 2 Groundwater up to 3 m Any embedding depth W4-E		W2.1-E, Situation 3 High water up to 3 m Embedding depth m	
	Non-pressing water on earth-covered ceilings		Splash water at the wal water in and below wall			
Substrate wall	Masonry - smooth		porous aggregates rendered surface		profiled other	\square
	Concrete				Waterproof concrete struct	ture
Substrate ground	Concrete				Waterproof concrete struct	
Floor slab	With overhang				flush	
Cross-section waterproofing	Damp-proof course		crack-bridging mineral waterproofing slurry		other	
Preparation of the substrate	Surfaces cleaned Foundation projection mechanical pre-treate	ı / face side abrasi d/cleaned	ve	Indentations > 5 m Thin render produc	m closed with mortar	
	Edges bevelled			Scratch coat, pipes	filled	
	Projecting horizontal k	parrier removed		Protection against action of water from	the m behind	
Primer	Designation of produc	et:		Quantity used in I/I	m²:	
	Degree of dilution:			Produced on:		

Sealing cove	Made of bituminous thick coating Made of BORNIT® Triangle Tape	Made of morta		Produced on:	
Surface waterproofing	Thick coating used:		Layer of reinf	forcement Y N	
,	1st layer applied on:			olied on:	
	Required wet layer thickness:				
Joint / Sealing tape	Designation of product:			n:	
			prepared on:		
Protection measures	taken		specification	:	
Protective layer	Protective panel used:		adhered with	n: Y N	
	Adhesive used:		prepared on:		
5					
Drainage layer (vertical drainage)	Drainage panel used:		adhered	T N	
	Drainage mat used:				
Perimeter insulation	Insulating panel used:		over the enti	re surface	
	Adhesive used:		selectively		
Check of the wet layer	Measurement of the wet layer thicknes	cs (at least 20 measuremen	nts per object c	or 20 measurements per 100 m² resp.)	
thickness	Measurement of the wet layer trickness		nts per object c	of 20 measurements per 100 m , resp.)	
		1st application (in mm)		2nd application (in mm)	
	Measurement No. 1				
	Measurement No. 2				
If you have no test card available, copy the	Measurement No. 3				
example onto cardboard or heavy paper and cut it to size.	Measurement No. 4				
	Measurement No. 5				
RMDNIT	Measurement No. 6				
- ROCK SOLID CONNECTIONS	Measurement No. 7				
	Measurement No. 8				
Test card to determine the wet-layer thickness of PMBC	Measurement No. 9				
according to EN 15 814/	Measurement No. 10				
DIN 18 533	Measurement No. 11				
Test card-No:	Measurement No. 12				
At least 20 test per 100 m² surface	Measurement No. 13				
(Documentation required for W2.1-E)	Measurement No. 14	<u> </u>			
Examiner:	Measurement No. 15	<u> </u>			
		<u> </u>			
	Measurement No. 16 Measurement No. 17	<u> </u>			
		<u> </u>			
6 mm	Measurement No. 18				
3 mm	Measurement No. 19				
	Measurement No. 20				
Check for thorough drying	Reference sample set up on:				
	Reference sample checked				
	for thorough drying: 1. dai			Thoroughly dried Y N	
	2. da			Thoroughly dried Y N	
		te:		Thoroughly dried Y N	
		ite:		Thoroughly dried Y N	
	5. da	te:		Thoroughly dried Y N	
	Note / Special features / Additional ap	ppendixes, if applicable:			
	Place, date Name and signa	ture of the executor			

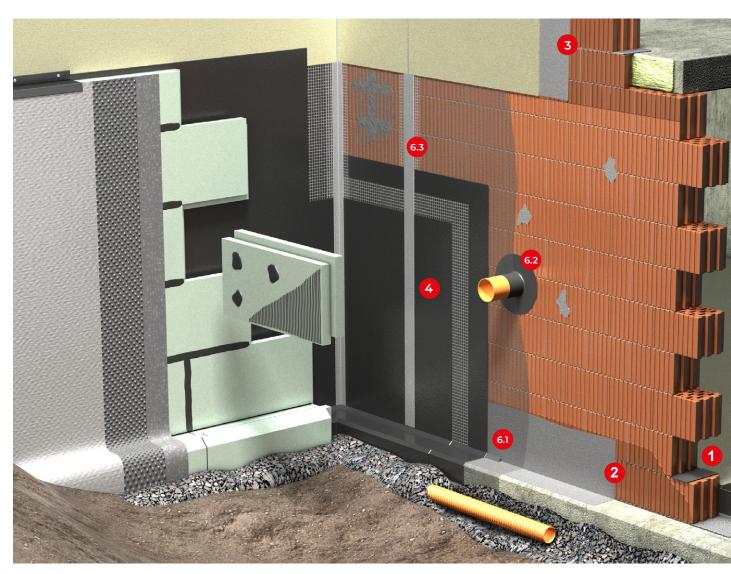
Name and signature of the site management

Place, date



Sealings at the foundation

Where does my house need protection in the foundation area?



1 Horizontal sealing in or underneath walls in the brickwork

The horizontal sealing serves as protection against rising moisture in the wall. It is either executed with a crack-bridging mineral sealing slurry (BORNIT® Slurry EL, BORNIT® Profi Hybrid 2C, BORNIT® Mineral Flex 2C) or as a brickwork barrier layer.

2 Protection against moisture penetration

The thick bitumen coating can be damaged by pressing water from the negative side (e.g. standing water in the shell construction). The intermediate sealing (consisting of BORNIT® Basic Primer in combination with BORNIT® Slurry SF) protects the thick bitumen coating against moisture / water penetrating from the rear.



3 Base sealing

The base sealing consists of a mineral slurry (e.g. BORNIT® Slurry EL / BORNIT® Profi Hybrid 2C). It protects the area of the external wall at risk of splash water, which after filling of the construction pit is visible above the ground level.

4 Vertical sealing

This sealing serves for protection of the entire area of the foundation in contact with the ground against moisture or water, resp. as well as any aggressive substances naturally occurring in the ground.

5 Floor slab sealing

The floor slab must always be sealed against rising moisture. This can be undertaken either with a suitable thick bitumen coating or bituminous sheeting. It must be observed that the floor slab sealing is integrated into the horizontal sealing.

6 Sealing details

6.1 Formation of the hollow fillet

A hollow fillet should be formed in the valley area between the floor slab and the rising wall. The hollow fillet can be formed either with bituminous (e.g. BORNIT® Triangle Tape or 2-component bitumen thick coating) or mineral (e.g. BORNIT® Sealing Mortar) materials.

6.2 Sealing of penetrations

Penetrations (e.g. pipe or cable passages through the wall) require special attention. The passages can be securely and quickly integrated into the vertical sealing using pipe sleeves (BORNIT® EasyPipe).

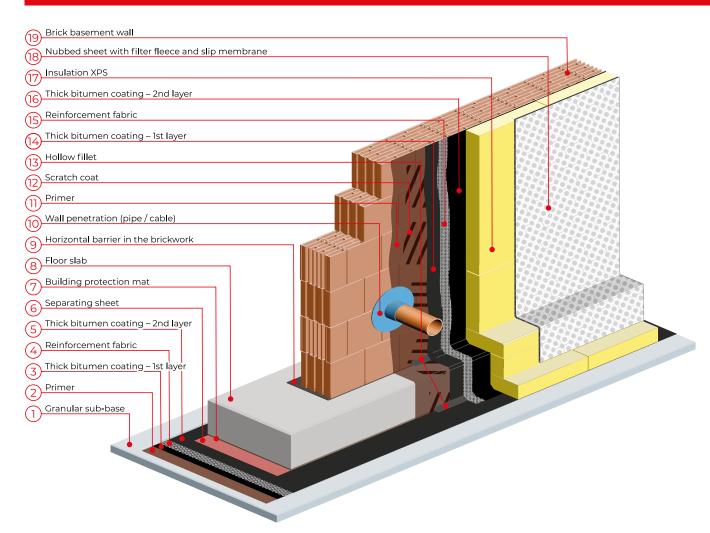
6.3 Sealing of expansion joints

An expansion joint is the interspace between two components or building sections, which enables their different movements. Expansion joints are flexibly bridged with BORNIT® Joint Fabric Tape; subsequently, they are integrated into the vertical sealing.



System Structure

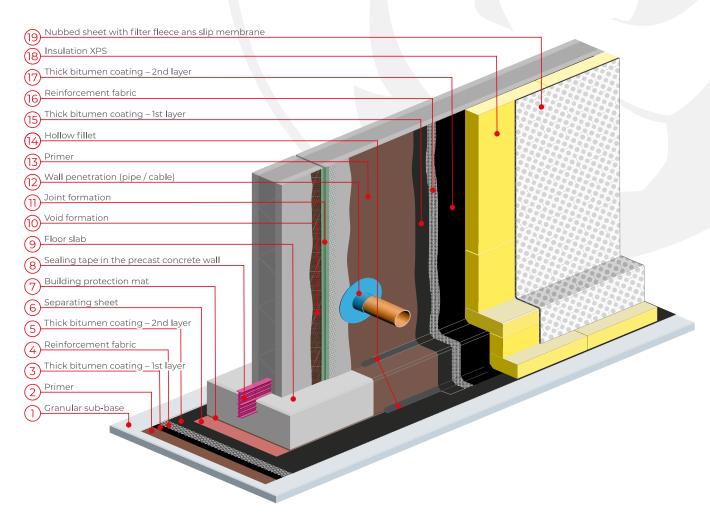
Sealing underneath the floor slab and the brick basement



- ① Concrete
- 2 BORNIT® Grundbit BORNIT® Basement Primer
- ③ BORNIT® Profi Hybrid 2C BORNIT® 2C Flex (Thick coating) BORNIT® 2C (Thick coating) BORNIT® Profi 1C Express
- (4) BORNIT® Glass Fabric
- S BORNIT® 2C (Thick coating)
 BORNIT® Profi Hybrid 2C
 BORNIT® Profi 1C Express
 BORNIT® 2C Flex (Thick coating)
- 6 Separating sheet
- 7 Building protection mat

- ® Reinforced waterproofing concrete
- 9 BORNIT®-G200 DD
- 60 BORNIT® EasyPipe (from 8 mm to 160 mm)
- 10 BORNIT® Grundbit BORNIT® Basement Primer
- (2) BORNIT® Profi Hybrid 2C
 (also area not in contect with the ground)
 BORNIT® 2C Flex (Thick coating)
 BORNIT® 2C (Thick coating)
 BORNIT® Profi 1C Express
 BORNIT® 1C (Thick coating)
- BORNIT® Sealing Mortar (cementitious) BORNIT® Triangle Tape
- (a) BORNIT® Profi Hybrid 2C
 (also area not in contact with the ground)
 BORNIT® 2C Flex (Thick coating)
 BORNIT® 2C (Thick coating)
 BORNIT® Profi 1C Express
 BORNIT® 1C (Thick coating)
- (§ BORNIT® Glass Fabric
- (6) BORNIT® Profi Hybrid 2C (also area not in contact with the ground)
 BORNIT® 2C Flex (Thick coating)
 BORNIT® 2C (Thick coating)
 BORNIT® Profi IC Express
 BORNIT® 1C (Thick coating)
- m Insulation XPS
- ® Nubbed sheet with filter fleece and slip membrane

Sealing underneath the floor slab and the concrete basement



- ① Concrete
- 2 BORNIT® Grundbit BORNIT® Basement Primer
- (3) BORNIT® Profi Hybrid 2C BORNIT® 2C Flex (Thick coating) BORNIT® 2C (Thick coating) BORNIT® Profi 1C Express
- → BORNIT® Glass Fabric

 BORNIT® Glass Fabric

 ■
- BORNIT® 2C (Thick coating)
 BORNIT® Profi Hybrid 2C
 BORNIT® Profi 1C Express
 BORNIT® 2C Flex (Thick coating)
- 6 Separating sheet
- Building protect mat

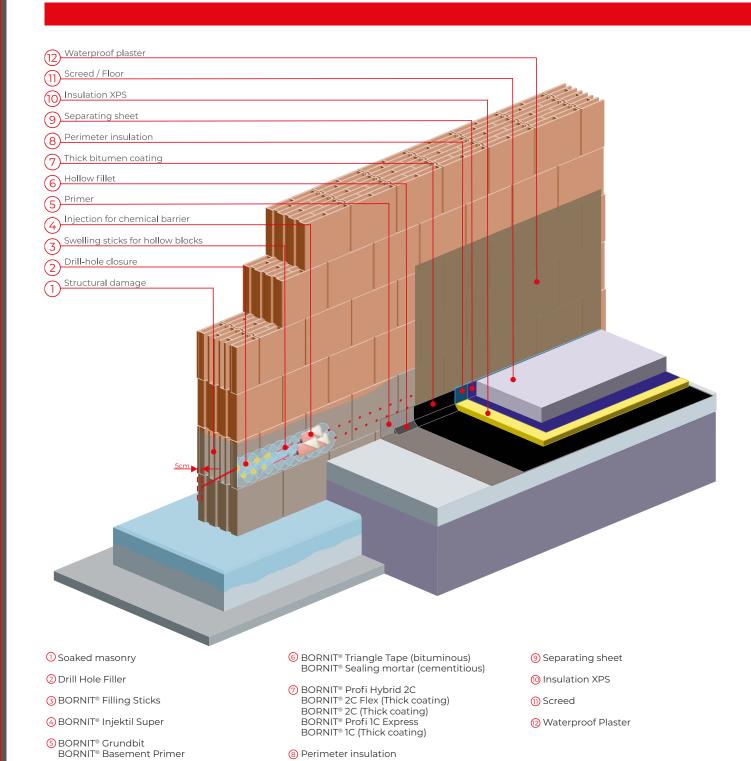
- 8 Sealing tape according to RAL assembly directive
 BORNIT® Profi Hybrid 2C
- einforced waterproof concrete
- (i) BORNIT® Profi Hybrid 2C
 (also area not in contact with the ground)
 BORNIT® 2C Flex (Thick coating)
 BORNIT® 2C (Thick coating)
 BORNIT® Profi IC Express
 BORNIT® 1C (Thick coating)
- 100 BORNIT® Joint Fabric Tape
- 12 BORNIT® EasyPipe (from 8 mm to 160 mm)
- (3) BORNIT® Grundbit BORNIT® Basement Primer

- BORNIT® Profi Hybrid 2C
 (also area not in contact with the ground)
 BORNIT® 2C Flex (Thick coating)
 BORNIT® 2C (Thick coating)
 BORNIT® Profi IC Express
 BORNIT® 1C (Thick coating)
- 6 BORNIT® Glass Fabric
- BORNIT® Profi Hybrid 2C
 (also area not in contact with the ground)
 BORNIT® 2C Flex (Thick coating)
 BORNIT® 2C (Thick coating)
 BORNIT® Profi IC Express
 BORNIT® 1C (Thick coating)
- (8) Insulation XPS
- 19 Nubbed sheet with filter fleece and slip membrane

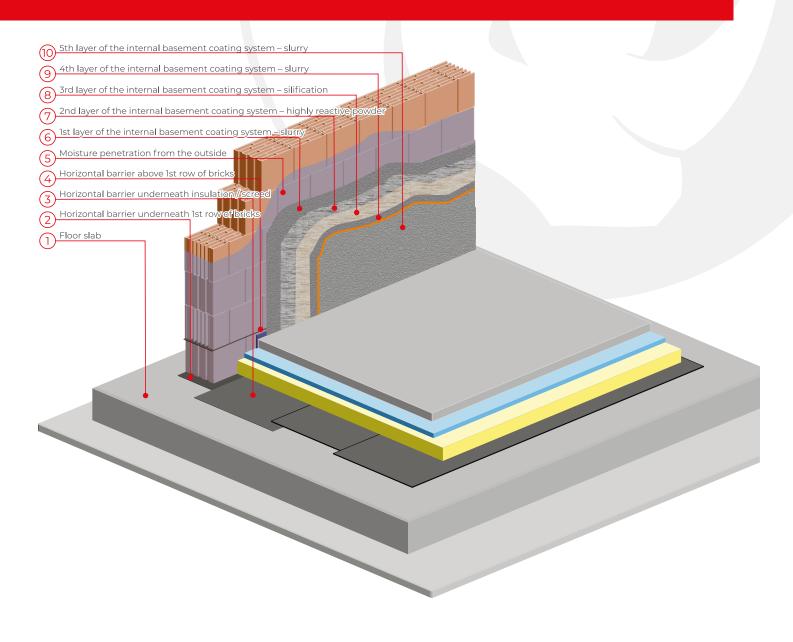


Definition of terms

Drainage of a brick wall using drill-hole injection



Sealing with BORNIT® Basement Coating System from the negative side



- 1 reinforced waterproof concrete
- 2 BORNIT® G200 DD
- 3 BORNIT® V60 S4 + AL
- 4 BORNIT® G200 DD
- ⑤ despite horizontal barrier, water penetrating ⑤ BORNIT® Slurry 1st layer from the outside trough defective sealing (apply onto Items 6+7+8 without wait)
- 6 BORNIT® Slurry
- 7 BORNIT® Water Stop (into the still fesh, wet slurry)
- ® BORNIT® Solidificator (apply into Items 6+7 without wait)

100 BORNIT® Slurry - 2nd layer (spread after 30 min.)



Your central thread for...

optimal waterproofing for the protection of building structures against water and agaressive substances in the soil



Is the substrate contaminated? (oils, greases, mould release agents, dirt and dust, etc.)



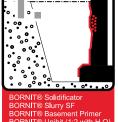
Remove mechanically



Do sharp edges and burrs exist? (e.g. edge of the floor slab, etc.)



Break them off mechanically; chamfer the floor slab (approx. 2x2 cm)



Do defects with more than 5 mm in depth and/or width exist?



Slightly pre-moisten these spots and fill them with BORNIT® Sealing Mortar



Does a protrusion of the floor slab and thus a hollow fillet exist?



Formation of the hollow fillet with:

→ BORNIT® Triangle Tape or 2-component Bitumen Thick Coating (radius max. 2 cm) - priming of the hollow fillet in advance with:



BORNIT® Basement Primer



BORNIT® Sealing Mortar (for BORNIT® Profi Hybrid 2C only

IMPORTANT: Do not prime the fillet area with bituminous material beforehand!

Is the substrate very sandy / flaky?



Pre-treat the substrate with:



→ BORNIT® Basic Primer



Is protection against moisture acting on the rear required as intermediate waterproofing?

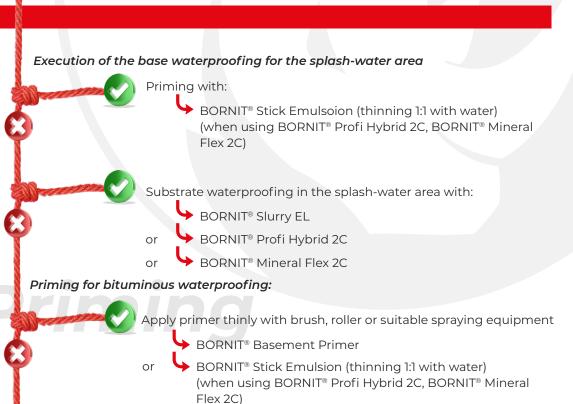


Priming with BORNIT® Basic Primer



Apply BORNIT® Slurry SF at least to above the horizontal barrier





Defects smaller than 5 mm



Apply BORNIT® Thick Bitumen Coating in a scraping manner (mandatory according to DIN 18533)

Do pipe penetrations / passages exist?



Waterproofing of pipe penetrations with:

▶ Pipe waterproofing system BORNIT® EasyPipe

The construction substrate is now prepared for the BORNIT® Thick Bitumen Coating to be subsequently applied.



Your central thread for...

optimal waterproofing for the protection of building structures against water and aggressive substances in the soil

Which water impact class, according to DIN 18533, is relevant for the respective waterproofing? (see page 4-9 - definition of water impact classes)



W1-E / W4-E

The following BORNIT® Bitumen Thick Coatings can be used for waterproofing:



or BORNIT® 2C (Bitumen Thick Coating)

or BORNIT® 2C Flex (Bitumen Thick Coating)
or BORNIT® Profi 1C Express

or BORNIT® Profi Hybrid 2C
BORNIT® Mineral Flex 2C

BORNIT® Slurry EL



W2.1-E / W3-E

The following BORNIT® Bitumen Thick Coatings can be used for waterproofing:

BORNIT® 2C (Bitumen Thick Coating)

BORNIT® 2C Flex (Bitumen Thick Coating)

or BORNIT® Profi 1C Express

→ BORNIT® Profi Hybrid 2C BORNIT® Mineral Flex 2C



Application of the 1st layer of the selected bitumen thick coating

Observe the wet layer thicknesses according to the note on processing for the respective product and check using the layer thickness test card

Is the waterproofing undertaken according to DIN 18533 - W2.1-E / W3-E?



Embed BORNIT® Glass Fabric 165 in the fresh 1st layer of the bitumen thick coating

Application of the 2nd layer of the bitumen thick coating

"Fresh on fresh" or after initial drying of the 1st layer, resp. (depending on the load case)





Is perimeter insulation to be used?

Important: Attachment only after complete and thorough drying of the thick bitumen coating!

Adhere insulating panels with adhesive in selected spots (W1-E) or over the entire surface (W2-E / W3-E) (approx. 2 kg/litre per m²)

All BORNIT® Thick Bitumen Coatings are suitable as fixing adhesive for insulating panels

Drainage layer / protective layer?

Dimpled sheeting with filter fleece and sliding film

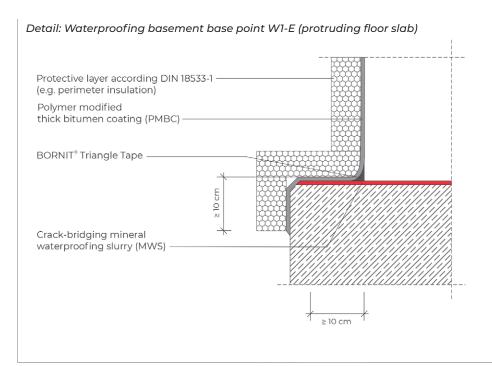
Filling of the construction pit

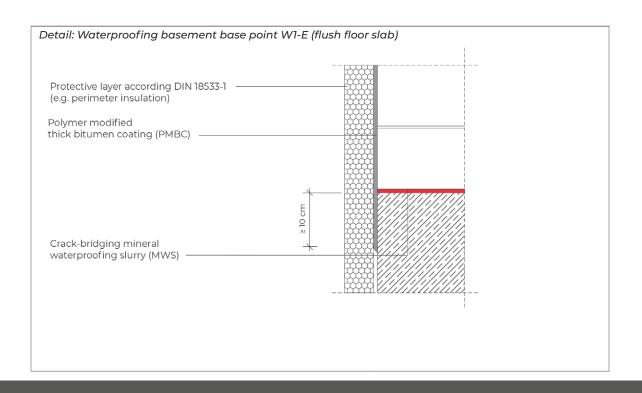
Consumption per m²:

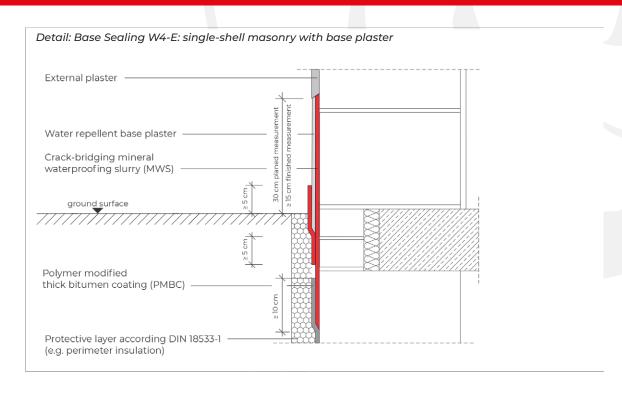
Water impact class (DIN 18533)	BORNIT® 1C (Bitumen Thick Coating)	BORNIT®- Profi 1C Express	BORNIT® 2C (Bitumen Thick Coating)	BORNIT® 2C Flex (Bitu- men Thick Coating)	BORNIT®- Profi Hybrid 2C	BORNIT® Mineral Flex 2C	BORNIT® Slurry EL
W1-E	4.5 ltr./m ²	3.5 ltr./m ²	4.5 kg/m ²	4.5 ltr./m ²	3.5 kg/m ²	3.6 kg/m ²	3.5 kg/m²
Dry layer thickness	3 mm	3 mm	3 mm	3 mm	3 mm	3 mm	2 mm
W2.1-E / W3-E	-	4.5 ltr./m ²	6.0 kg/m ²	6.0 ltr./m ²	4.5 kg/m ²	4.8 kg/m²	-
Dry layer thickness		4 mm	4 mm	4 mm	4 mm	4 mm	
W4-E	4.5 ltr./m ²	3.5 ltr./m ²	4.5 kg/m ²	4.5 ltr./m ²	3.5 kg/m ²	2.4 kg/m ²	3.6 kg/m ²
Dry layer thickness	3 mm	3 mm	3 mm	3 mm	3 mm	2 mm	2 mm

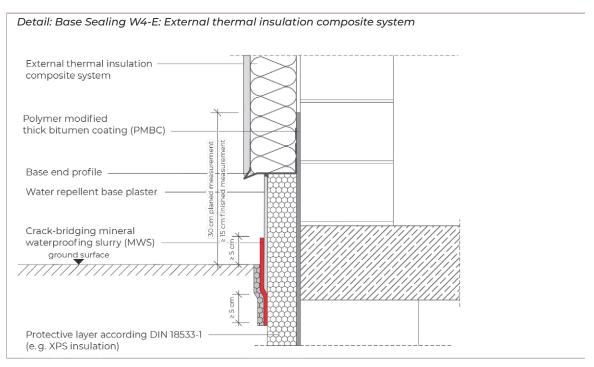


Detailed illustrations











Vertical waterproofing

Priming of the area in contact with the ground



BORNIT® Basement Primer or BORNIT® Stick Emulsion (1:1 with water), resp., using brush, roller or suitable spraying equipment.

Defects smaller than 5 mm as well as pores in the substrate can be closed by applying the thick bitumen coating in a scraping manner. Especially for concrete surfaces, application in a scraping manner is likewise recommended in order to avoid the formation of bubbles (mandatory according to DIN 18533).

The substrate must be firm, clean, dust-free and free from separating substances (e.g. oils, greases, release agents, etc.). The substrate should be absorbent. It may be slightly moist, but not wet.

The substrate must be free from burrs or sharp-edged unevennesses as well as soil.

For solidification of sandy substrates, priming with BORNIT® Basic Primer is recommended.

Badly or unfilled depressions, like masonry joints, mortar pockets or surface defects >5 mm, must be repaired with BORNIT® Sealing Mortar. No plaster layer is required for fully and flushly grouted masonry. Subsequently, the prepared substrate is primed with







Application of the 1st layer of the thick bitumen coating

Single-component thick coatings can be used directly from the delivery container - do not stir up!

Two-component thick coatings are mixed according to the Technical Datasheet with stirring equipment and the BORNIT® Anchor stirrer prior to processing.

IMPORTANT: Observe the load case according to DIN 18533! (see page 4-8)

The BORNIT® Thick Bitumen Coating is applied to the prepared substrate with a notched trowel, smoothing trowel or suitable spraying equipment; upon application with a notched trowel, observe possible air pockets.





IMPORTANT: BORNIT® Thick Bitumen Coatings must not be processed in case of frost or impending rain. In case of sun and/or summer temperatures, freshly coated surfaces must be suitably shaded; furthermore, sufficient air circulation must be provided in the construction pit.

The processing temperature (ambient and substrate temperatures) must not be below +5 $^{\circ}$ C and should not exceed +30 $^{\circ}$ C.

According to DIN 18533 - W2.1-E, layer thickness tests must be performed and recorded (protocol, see pages 12/13).

For that, the required layer thicknesses for the respective

load case according to DIN 18533 as well as the information stated in the Technical Datasheet of the BORNIT® Thick Bitumen Coating chosen must be observed!

In case of a protruding floor slab, application of the thick bitumen coating must be continued from the wall area across the floor slab up to at least 10 cm (at W1-E) or 15 cm (at W2.1-E) to the front face of the floor slab.

In case of interruptions of work, the thick bitumen coating must be spread out "to zero"; upon resumption of work, continue with an overlap. There must not be any interruptions of work at building corners.





Vertical waterproofing Embedding of BORNIT® Glass Fabric (upon waterproofing according to DIN 18533

W2.1-E/W3-E) and application of the 2nd layer of the thick bitumen coating



If waterproofing according to DIN 18533 W1-E / W4-E is undertaken, the 2nd layer of the thick coating can be applied "fresh on fresh" (without reinforcement fabric).

Upon waterproofing according to DIN 18533 W2.1-E / W3-E BORNIT® Glass Fabric is superficially embedded into the still fresh 1st layer of the thick bitumen coating. the 2nd layer of the thick coating must only be applied once the 1st layer has dried to that extent that it is not be damaged by the subsequent application anymore.

First, all outer and inner corners are provided with BORNIT® Glass Fabric.

Subsequently, the BORNIT® Glass Fabric is worked into the fresh thick bitumen coating. An overlap between the individual sheets of at least 10 cm must be observed upon application.

It is recommended to embed the BORNIT® Glass Fabric into the thick bitumen coating down to the front surface of the floor slab.





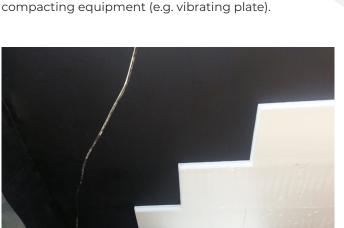
Attachment of insulating panels and protective layers

Insulating panels or protective layers, resp., must only be attached after complete and thorough drying of the thick coating.

Insulating panels are adhered with adhesive in selected spots (W1-E) or over the entire surface (W2.1-E) (approx. 2.0 kg or litres, resp., of thick coating per m²).

The drainage or protective layer, resp., is attached with the sliding film facing the wall side – the nubs and the filter fleece are visible on the outside.

Upon layered filling of the construction pit, it must be observed that the dimpled sheeting is not damaged by compacting equipment (e.g. vibrating plate).







IMPORTANT: The dimpled sheeting must under no circumstances be attached with nails or the like in the waterproofing area; upon filling of the pit, support the upper area of the dimpled sheeting with battens in order to prevent folding down.

If cuts are made in the dimpled sheeting (e.g. for light wells), the upper, open edge must be closed (e.g. with turned over geotextile) in order to prevent penetration of foreign substances – these can block the water-conducting dimpled area!





Horizontal waterproofing



horizontal surfaces are formed – without unevennesses, which would be damaging for the sheeting. At the joints, overlapping of approx. 20 cm must be observed. The overlaps can be glued together. The damp proof course protruding beyond the brick at the outside wall is cut off flushly prior to application of the thick bitumen coating. The sheeting protruding on the inside serves connection to the horizontal water-proofing of the floor slab.

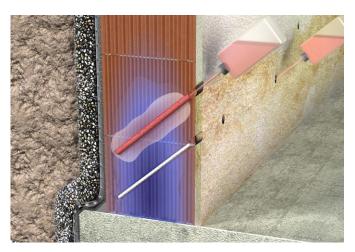
In case of renovation, a horizontal barrier can also be inserted subsequently by chemical injections.

For that, the wall to be treated is pre-drilled at regular intervals diagonally to the wall's cross-section. Each

Horizontal waterproofing (cross-sectional waterproofing) protects the upright wall against moisture ascending via capillaries.

This cross-sectional waterproofing can be carried out with a crack-bridging mineral waterproofing slurry in at least 2 coats (BORNIT® Slurry EL, BORNIT® Profi Hybrid 2C, BORNIT® Mineral Flex 2C.

A cross-sectional waterproofing can also be carried out with a damp proof membrane. This is applied under the 1st row of bricks and must consist of at least one layer. The contact surfaces for the sheets must be adapted to such thickness with the respectively used masonry mortar, that



drill-hole is filled with a filling stick and this is then soaked with BORNIT® Injektil Super for a period of 24 hours. Subsequently, the drill-holes are closed with drill-hole filler.



Rear moisture protection

In order to protect the thick bitumen coating against moisture acting on the rear, the area should be additionally waterproofed starting from the floor slab via the hollow fillet up to above the 1st row of bricks.

For that, this area is primed with BORNIT® Basic Primer, and then BORNIT® Slurry SF is applied "fresh on fresh".

This system setup effectively prevents that water pressure from the inside (e. g. due to rain in the construction phase) can act against the fresh bitumen waterproofing. Thus, detachment of the bitumen waterproofing from the substrate is effectively prevented.













Base waterproofing



IMPORTANT: Mineral waterproofing always under bituminous waterproofing! First apply the mineral waterproofing products and subsequently process the thick bitumen coating in an overlapping manner.

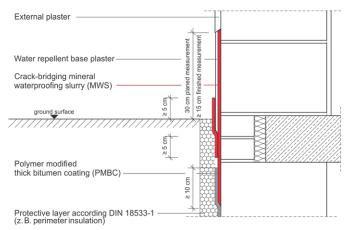
ATTENTION: Thick bitumen coating applied too high (above ground level) can be removed mechanically with great effort only.

The splash-water area of masonry or concrete walls is waterproofed with BORNIT® Slurry EL, BORNIT® Profi Hybrid 2C or BORNIT® Mineral Flex 2C.

In the splash-water area, the mineral waterproofing has to be executed at least 30 cm above and 20 cm below the final ground level. Following terrain adjustment, the waterproofing must extend at least up to 15 cm above ground level.

The overlapping zone of mineral waterproofing and thick bitumen coating lies below ground level and extends over at least 10 cm.

Thus, the thick bitumen coating ends in the non-visible area of the gravel pack of the splash-water base.







Waterproofing details

Formation of the hollow fillet between floor slab and wall connection

BORNIT® Triangle Tape is excellently suited for the formation of the hollow fillet between floor slab and upright wall.

For that, the BORNIT® Triangle Tape is flame-heated on the 90° side and pressed into the fillet. Following cooling down of the first attachment, evenly heat the tape until it starts to melt and press it into the molten pool. For edge fusion, finally apply the flame across the tape once again and smooth it with a spatula (20 mm) warmed to a moderate temperature.

As an alternative, the hollow fillet can also be formed with mineral BORNIT® Sealing Mortar. The sealing mortar likewise forms a waterproof fillet protection,



however, in a rigid manner. Here, possible structural movements cannot be compensated as well as with BORNIT® Triangle Tape. In addition, the setting process of the cementitious mixture must have been completed before any further work can be undertaken.

Due to its quick-drying properties, BORNIT® Repabit, BORNIT® 2C and BORNIT® 2C Flex, are suitable for the formation of hollow fillets. In that, a maximum layer thickness in the fillet of 2 cm must not be exceeded.



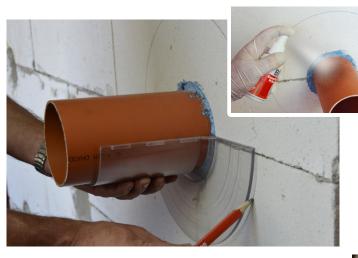






Waterproofing details

Waterproofing of penetrations



pipe and pipe sleeve. Provide the two half-sleeves with 3 adhesive strands each (the first adhesive strand at the outer edge of the shaft – the second about 2 cm below the first one – the third above the 45° angle). Place both half-sleeves around the pipe about 2 cm away from the wall and click it together – slide it towards the substrate in a slightly rotating manner, so that an adhesive bead emerges at the plate edge and at the shaft of the BORNIT® EasyPipe sleeve. In that, it must be observed that the half-sleeves, in particular also in the plate area, are completely joined.

Wall penetrations in the foundation area (e.g. for pipes/cables) can be securely waterproofed with the pipe sealing system BORNIT® EasyPipe (not at W2.2-E).

The pipe protruding from the wall is fixed in the area of the wall penetration (e.g. with construction foam) prior to assembly of BORNIT® EasyPipe, since the pipe must not move anymore upon assembly of BORNIT® EasyPipe. Draw the external outlines of the BORNIT® EasyPipe sleeve on the substrate with one half as a template. Press the BORNIT® EasyPipe adhesive into the entire groove junction (plate and pipe flange) of the two BORNIT® EasyPipe half-sleeves. Now cut off the nozzle of the cartridge to the required opening size – in order to compensate for the space between





With the exclusive new development, the transparent BORNIT® EasyPipe, a visual leakage check is immediately apparent – the transparent sleeve substantially increases functional safety. Finally spread the emerging adhesive compound.



Quicklink application video BORNIT® EasyPipe



















Waterproofing of expansion joints

At expansion joints, movements from building sections must not have such an effect, that the functionality of the waterproofing is put at risk. Therefore, execution and waterproofing of the expansion joints must be adapted to the movements to be expected.

Normally, in the area in contact with the ground, joints of type I are to be expected. These are joints for slow and one-time or rarely repeated movements, e.g. settling movements. In that, the movements of the joint flanks must not exceed 5 mm in total. Expansion joints of type I are waterproofed with a joint sealing tape (e.g. BORNIT® Joint Fabric Tape), which is inserted into the joint in loops. Filling or covering the joints is inadmissible.



Expansion joints can only be waterproofed, when a seamless connection of the joint sealing tapes is ensured over the entire length of the joint.

The thick bitumen coating used is applied right up to the joint to be bridged. Subsequently, BORNIT® Joint Fabric Tape is immediately applied and fixed on the fresh coating. Following drying of the coating, the same sealing material is applied once again on at least 100 mm to both sides of the BORNIT® Joint Fabric Tape (fabric edge and rubber coating) in a covering manner, so that a closed sealing layer results.







Floor slab waterproofing



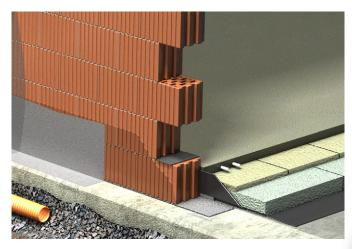
the welded surface.

Subsequently, thick bitumen coating can be used for intermediate waterproofing (under screed) of floor slabs. BORNIT® Profi 1C Express, BORNIT® 2C Flex, BORNIT® 2C, BORNIT® Profi Hybrid 2C are suitable for that. Waterproofing with polymer-modified thick bitumen coatings must be applied in two layers. The dry layer thickness must be at least 3 mm. In that, the thick bitumen coating is provided up to the intermediate waterproofing of the walls and respectively connected.

For waterproofing of the floor slab, a stable substrate is required and the waterproofing must be protected against damages.

Prime the granular sub-base (concrete layer underneath the floor slab) with BORNIT® Speedbit-Primer, BORNIT® Grundbit, BORNIT® 5M Primer or BORNIT® Bitumen Primer (approx. 0.2 litres/m²) and then weld on weldable bitumen sheeting (e.g. PYE PV 250 S5) over the entire surface. In that, an overlap of the weldable sheeting of at least 10 cm must be observed. The waterproofing must be made of at least 1 layer and adhered to the substrate with adhesive in selected spots or over the entire surface. Subsequently, the floor slab can be cast onto









Product Overview

primer, bituminous & mineral-based waterproofing

Priming:



BORNIT® Speedbit Primer

Solvent-free, quick-drying elastomer bitumen primer for laying bitumen welding membranes indoors and outdoors, can be rolled, brushed or sprayed on

System products: BORNIT® MultiClean Spray BORNIT® Bitumen Cleaner Bitumen roof sheetings













Order-No. EAN-Code **P**alletisation 6900004117 4 017228 00541 6 44 bucket 6900004118 4 017228 00542 3 18 bucket



BORNIT® Basement Primer

Solvent-free polymer bitumen primer for the pretreatment of mineral substrates such as concrete and masonry surfaces, thin liquid, quickdrying, brush- and sprayable

System products: BORNIT® 1C Bitumen Thick Coating BORNIT® Profi 1C Express BORNIT® 2C Bitumen Thick Coating BORNIT® 2C Flex Bit. Thick Coating











Туре	Conter	nt <mark>C</mark> olour	sufficient for
	5 ltr.	black	approx. 25 m²
	10 ltr.	black	approx. 50 m²
	20 ltr.	black	approx. 100 m ²

Order-No. EAN-Code **Palletisation** 6900002657 4 017228 00443 3 60 canister 6900002656 4 017228 00444 0 60 canister 6900002655 4 017228 00395 5 24 canister









BORNIT® Stick Emulsion

Solvent-free dispersion for the modification of cement-based mortars, improves adhesion and elasticises, primer for BORNIT® Profi Hybrid 2C (diluted 1:1 with water)

System products: BORNIT® Profi Hybrid 2C BORNIT® Slurry SF BORNIT® Sealing Mortar





Гуре	Content	Colour	sufficient for
	1 kg	white	approx. 5.0 m ²
	10 kg	white	approx. 50.0 m ²

Order-No.	EAN-Code	Palletisation
6700000107	4 017228 00274 3	
6800000356	4 017228 00458 7	60 canister



Product Overview

primer, bituminous & mineral-based waterproofing

for the formation of the hollow fillet in the foundation area:

BORNIT® Triangle Tape

Highly flexible, meltable elastomer bitumen tape for safe and easy joint sealing and right angle corners in civil engineering

System products:
BORNIT® Bitumen Primer
BORNIT® Bitumen Primer Spray
BORNIT® Basement Primer
BORNIT® Trapezium Tape



Type	Conten	Colour	sufficient for	Order-
18x35 mn	n 25 m	black	approx. 25 m	690000

 Order-No.
 EAN-Code
 Palletisation

 6900002711
 4 017228 00056 5
 24 box

B 3 P.N.T. Spermortel Spermortel Single State State

BORNIT® Sealing Mortar

Ready-mixed mortar for the production of wall / floor connection grooves in basement construction, water-repellent wall and joint mortar, for the creation of barrier plasters, after curingwater-repellent and frost-resistant

System products: BORNIT® Stick Emulsion BORNIT® Slurry SF





Type	Content Colour		sufficient for	Order-No.	P alletisation	
	25 kg	grey	approx. 16 - 25 m² at 1 mm layer	6800000358	4 017228 00460 0	40 bag
			thickness			

Bitumen thick coatings (1-component):

BORNIT® Profi 1C Express 1-component, polystyrene-filled bitu waterproofing of structures according

Type





System products:
BORNIT® Basement Primer
BORNIT® Triangle Tape
BORNIT® Slurry SF
BORNIT® Glass Fabric 165



e	Content	Colour	sufficient for	Order-No.	EAN-Code	Palletisation
	32 ltr.	black	approx. 6.4 - 9.1 m ²	6900002651	4 017228 00496 9	18 bucket









BORNIT® 1C Bitumen Thick Coating

1-component, polystyrene-filled bitumen thick coating for the reliable sealing of structures according to DIN 18533 W1-E, W4-E and for gluing perimeter insulation panels in areas in contact with the ground, PMBC according to EN 15814, can be troweled and sprayed-on

System products: BORNIT® Basement Primer BORNIT® Triangle Tape BORNIT® Slurry SF BORNIT® Glass Fabric 165





Type	Content	Colour	sufficient for
	12 ltr.	black	approx. 2.7 m ²
	32 ltr.	black	approx. 6.4 - 7.1 m ²

Order-No. EAN-Code **Palletisation** 6900002648 4 017228 00407 5 44 bucket 6900002647 4 017228 00408 2 18 bucket

Bitumen thick coatings (2-component):







2-component, flexible reactive sealant for the secure sealing of structures according to DIN 18533 W1-E, W2.1-E, W3-E, W4-E, can be used in the plinth area and for bonding insulation boards, according to EN 15814, quick-drying, trowel- and sprayable, radon-tight

Type	Content	Colour	sufficient for
	9 kg	anthracite	approx. 2.0 - 2.5 m ²
	24 kg	anthracite	approx. 5.3 - 6.8 m ²

System products: BORNIT® Stick Emulsion BORNIT® Sealing Mortar BORNIT® Slurry SF BORNIT® Glass Fabric 165





Order-No.	EAN-Code	Palletisation
6900004319	4 017228 00883 7	24 bucket
6900002658	3 4 017228 00836 3	18 bucket





BORNIT.



BORNIT® 2C Flex Bitumen Thick Coating

2-component, polystyrene-filled bituminous thick coating for the secure waterproofing of structures according to DIN 18533 W1-E, W2.1-E, W3-E, W4-E and for the adhesion of perimeter insulation boards in the area in contact with the soil, PMBC according to EN 15814, with general building authority test certificate according to PG ÜBB, trowelable and sprayable

Гуре	Content	: Colour	sufficient for
	30 ltr.	black	approx. 4.6 - 6.6 m ²

System products: BORNIT® Basement Primer BORNIT® Triangle Tape BORNIT® Slurry SF BORNIT® Glass Fabric 165





Order-No.	EAN-Code	<u>Palletisation</u>
6900002539	4 017228 00442 6	18 bucket



Product Overview

primer, bituminous & mineral-based waterproofing

Bitumen thick coatings (2-component):



BORNIT® 2C Bitumen Thick Coating

2-component, fiber-reinforced bitumen thick coating for the secure sealing of structures according to DIN 18533 W1-E, W2.1-E, W3-E, W4-E and for gluing perimeter insulation panels in the area in contact with the ground, PMBC according to EN 15814, can be troweled and sprayed-on

System products: BORNIT® Basement Primer BORNIT® Triangle Tape BORNIT® Slurry SF BORNIT® Glass Fabric 165





Type	Content	Colour
	32 kg	black

sufficient for approx. 4.9 - 7.1 m² Order-No. EAN-Code **Palletisation** 6900002536 4 017228 00409 9





Mineral slurries:



BORNIT® Mineral Flex 2C

2-component, bitumen-free, mineral, flexible polymer-modified thick coating (FPD) for the secure sealing of buildings, for the bonding of perimeter insulation boards, quickly rainproof, waterproof after 24 hours, crack-bridging, UV-resistant, plasterable, trowel- and sprayable, radon-

System products: BORNIT® Basic Primer BORNIT® Sealing Mortar BORNIT® Slurry SF BORNIT® Glass Fabric 165



18 bucket



Type	Content Colour		sufficient for
	25 kg	dark grey	approx. 5.2 - 10.4 m ²

Order-No. EAN-Code **Palletisation**

6800000947 4 017228 00943 8





BORNIT® Slurry SF



1-component, mineral, rigid sealing slurry for surface sealing in new and old buildings as well as water tanks

System products: BORNIT® Basic Primer BORNIT® Stick Emulsion BORNIT® Sealing Mortar







sufficient for approx. 6.25 m² Order-No. EAN-Code 6800000361 4 017228 00457 0 40 bag











2-component, crack-bridging, white, mineral sealing slurry for sealing mineral components, can be brushed and troweled

System products: BORNIT® Basic Primer BORNIT® Glass Fabric 165





Type	Content	Colour	sufficient for
	33 kg	grey/white	approx. 8.9 m ²

Order-No. EAN-Code **P**alletisation 6900002694 4 017228 00459 4 40+40 bag + canister





Pipe waterproofing / Reinforcement inserts / Sealing tapes:



BORNIT® EasyPipe

Safe pipe sealing system for use in the foundation and roof area, with little preparatory work and easy handling - maximum safety

System products: BORNIT® 1C Bitumen Thick Coating BORNIT® 2C Bitumen Thick Coating BORNIT® 2C Flex Bit. Thick Coating BORNIT® Profidicht 1K Fix





Type Conte	ent <mark>C</mark> olour	sufficient for	Order-No.	EAN-Code	<u>P</u> alletisation
8-25 mm 1 piece	transparent	1 pipe aperture	6800000594	4 017228 00072 5	1 per box
26-44 mm 1 piece	transparent	1 pipe aperture	6800000595	4 017228 00073 2	1 per box
45-63 mm 1 piece	transparent	1 pipe aperture	6800000596	4 017228 00074 9	1 per box
64-86 mm 1 piece	transparent	1 pipe aperture	6800000597	4 017228 00075 6	1 per box
87-110 mm 1 piece	transparent	1 pipe aperture	6800000598	4 017228 00076 3	1 per box
111-125 mm 1 piece	transparent	1 pipe aperture	6800000599	4 017228 00077 0	1 per box
135-160 mm 1 piece	transparent	1 pipe aperture	6800000600	4 017228 00078 7	1 per box
EasyPipe 1 piece	grey	1 EasyPipe	6800000530	4 017228 00079 4	12 per box
Adhesive					



BORNIT® Glass Fabric 165

Reinforcement core for waterproofing compliant with DIN 18533 especially suitable for all BORNIT® Bituminous Thick Coatings (PMBC)

System products: BORNIT® 1C Bitumen Thick Coating BORNIT® 2C Bitumen Thick Coating BORNIT® 2C Flex Bit. Thick Coating BORNIT® Profidicht 1K Fix



Type	Content	Colour	sufficient for
	50 m	white	approx. 45 - 50 m ²

Order-No.	EAN-Code	Palletisation
6800000481	4 017228 00416 7	33 roll



Product Overview

primer, bituminous & mineral-based waterproofing

Pipe waterproofing / Reinforcement inserts / Sealing tapes:



BORNIT® Joint Fabric Tape

Flexible sealing tape with rubber coating, for sealing of joints and connections, total width 240 mm, rubberized width 150 mm

System products:
BORNIT® 1C Bitumen Thick Coating
BORNIT® 2C Bitumen Thick Coating
BORNIT® 2C Flex Bit. Thick Coating
BORNIT® Profidicht 1K Fix



Type	Conten	t Colour	sufficient for
150 mm	30 m	white-grey-white	approx. 30 m of expansion joint

Order-No. EAN-Code Palletisation

6800000798 4 017228 00917 9

Further system products:



BORNIT® Injektil Super

Solvent-free, hydrophobic injection agent for the renovation and material consolidation of masonry and concrete walls, forms a chemical horizontal barrier against rising moisture, self-dosing when processed with capillary sticks

System products:
BORNIT® Anti Sulphate
BORNIT® Empty cartridge with spout
BORNIT® Filling Sticks



Type	Conter	nt <mark>C</mark> olour	sufficient for		
	550 g	orange-transparent	approx. 0.04 m²		
	10 kg	orange-transparent	approx. 0.67 m ²		
	20 ka	orange-transparent	approx. 1.3 m ²		

Order-No.	EAN-Code	<u>P</u> alletisation	
6900002693	4 017228 00447 1	36 bottles per box	
6900002692	4 017228 00446 4	60 canister	
6900002691	4 017228 00463 1	24 canister	



BORNIT® Basic Primer

Solvent-free primer, as basic protection for the rear moisture protection system in the concave molding, strengthening the building material, against mortar-decomposing salts and efflorescence

System products:
BORNIT® Triangle Tape
BORNIT® 1C Bitumen Thick Coating
BORNIT® 2C Bitumen Thick Coating
BORNIT® 2C Flex Bit. Thick Coating



Type	Content Colour		sufficient for		
	10 kg	transparent	approx. 96 - 100 m ²		

Order-No.	EAN-Code	Palletisation
6900002784	4 017228 00020 6	60 canister





Comparison

bituminous and mineral-based sealings

	BORNIT® 1C (Bitumen Thick Coating)	BORNIT®- Profi 1C Express	BORNIT® 2C (Bitumen Thick Coating)	BORNIT® 2C Flex (Bitu- men Thick Coating)	BORNIT®- Profi Hybrid 2C	BORNIT® Mineral Flex 2C	BORNIT® Slurry EL
DIN 18533 W1-E; W4-E (ground moisture and non-pressing water, splash-/ seepage water)							
DIN 18533 W2.1-E / W3-E (pressing water; non- pressing water on earth- covered ceiling surfaces)							
Processable without mixing							
rainproof according to EN 15816 (*depending on ambient temperature, air humidity and air circulation)	approx. 7 hours	approx. 4 hours	approx. 4 hours	approx. 4 hours	approx. 4 hours	approx. 3 hours	approx. 3 hours
Drying time (*depending on ambient temperature, air humidity and air circulation)	at least 3 days	at least 2 days	at least 2 days	at least 2 days	24 hours (*20°C / 60% rel. air humidity)	24 hours (*20°C / 60% rel. air humidity)	at least 2 days
Application in the visible base area (plaster application thereon possible)							
Adhesion of insulation panels possible (in the area in contact with the ground)							

All BORNIT® bitumen thick coatings as well as mineral waterproofing products can be sprayed; for further technical information, please contact our application technology or sales representatives.



