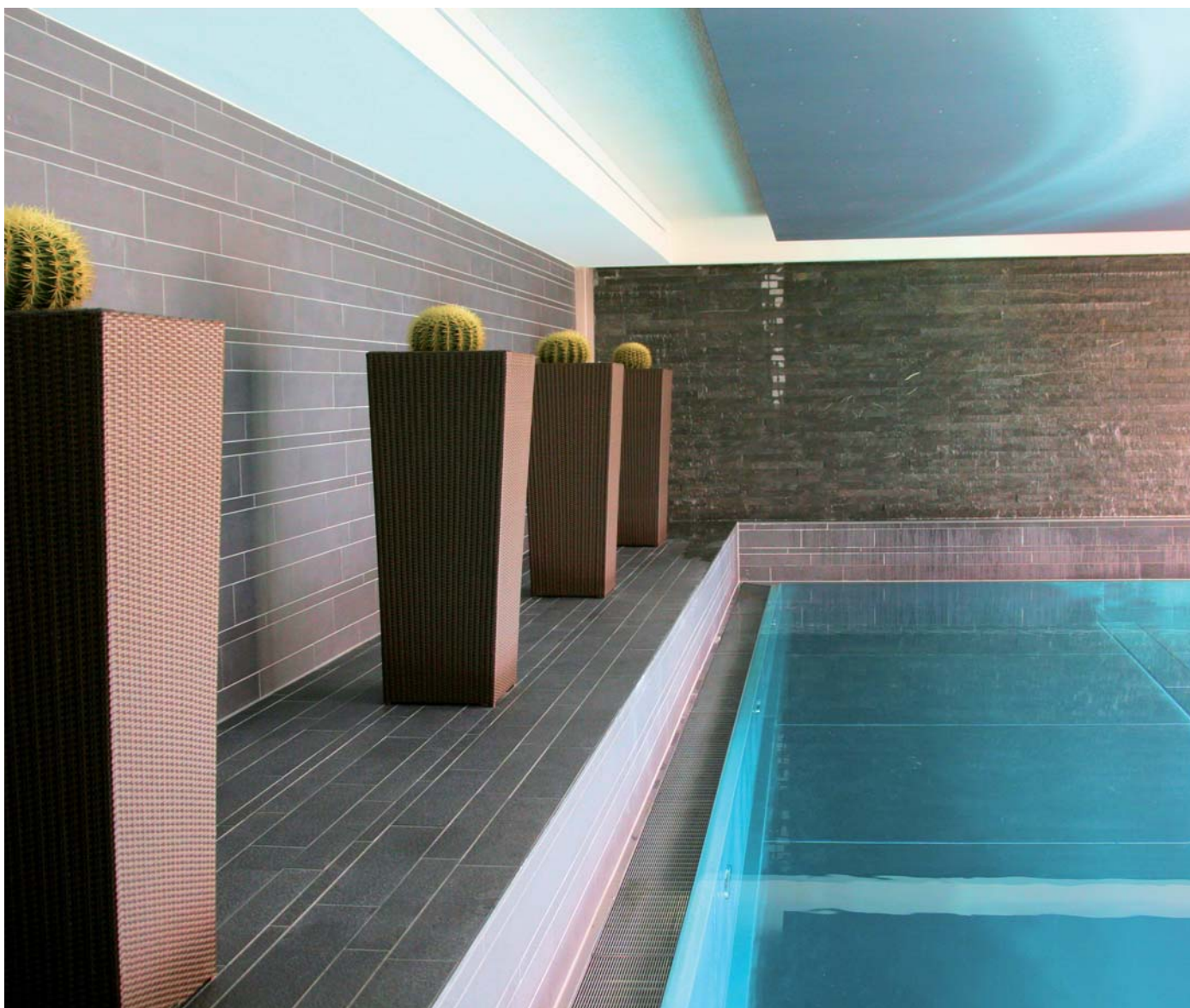


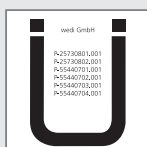
Sealing and decoupling

Things to know and technology





wedi products and systems are of a high standard of quality and have received numerous certifications throughout Europe.



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Sealing of regulated / non-regulated areas

The sealing of buildings is, inter alia, defined in DIN 18195 Waterproofing of buildings. Additional rules and standards are included on the ZDB information sheet for composite sealing elements. A relatively new set of rules is provided by ETAG 022. Here, sealings are regulated from a European perspective. In principle, sealings should work and ensure that no damage to the structural element or any impairments in terms of hygiene are caused by water, humidity as well as by other media such as lyes or acids. Which sealing is the most appropriate is dependent on the conditions to which it is to be subjected. Building products as well as building types are defined in

the Building Rules List issued by the German Institute for Construction Technology. A distinction is being made between application areas subject to official building inspection for high load classes (A/B/C) and application areas that are not subject to official building inspection for moderate loads (A0/B0). Sealings suitable for high loads are, of course, also suitable and recommended for moderate loads. In addition, the general application of composite sealing elements is to be contractually agreed upon. There are three types of sealings: Plate-type sealings, sealing foils and sealings to be processed in liquid form. wedi has a solution for all three sealing types.



Decoupling with wedi building boards

Decoupling is to be considered as an intermediate layer that neutralises any tensions coming from the surface. Decoupling systems are not standardised; they can both be used as acoustic decoupling and as thermal decoupling. The wedi building board can be used as decoupling between tiles and critical surfaces in all strengths. Furthermore, the wedi building board can also be used as thermal

decoupling. If, for example, an electric floor heating is installed, the wedi building board can be used as thermal decoupling to the surface. The wedi building board ensures that the heat is transferred directly upwards and that no unnecessary heat losses occur. This use is also recommended by renowned manufacturers.

wedi *Subliner Dry* | Sealing membrane

General product description

Thin-layer, crack-bridging sealing membrane made from highly tear-resistant polyethylene film that ensures excellent adhesion of tile-setting compounds thanks to its special fleece layer on each side. This product can be used with ceramic tiles and slabs and with natural stone cladding for internal walls and floors to provide quick sealing for projects with a tight deadline.

Applications

wedi Subliner Dry is a membrane sealing system for humid areas with moderate load, i.e. moisture exposure class A0 as per the ZDB data sheet; this includes, but is not limited to:

- Domestic bathrooms
- Hotel bathrooms

With test certificate under building regulations, it is approved for use in forming a composite sealing layer in high-load wet areas of load classes A and C; this includes, but is not limited to:

- Shower systems
- Swimming pool surrounds
- Commercial kitchens and laundries

In areas requiring technical approval, only components verified with the system should be used. Corresponding information is included in the general test certificate under the building regulations.

Surface requirements

- All absorbent mineral surfaces should be primed. Smooth or non-absorbent surfaces that cannot be treated using surface treatment methods such as blasting etc. must also be primed.
- For use on heated screeds, the applicable ZDB data sheets concerning floor coverings on heated floor constructions should be observed.
- Concrete and lightweight concrete should be at least 3 months of age.
- The residual moisture must not exceed the following values:

Cement screeds*:	3.5 %
Calcium sulphate screeds:	0.5 %
Heated calcium sulphate screeds:	0.3 %
Gypsum-based plasters:	1.0 %

 (measurement with CM instrument)

* A level surface should be ensured; no installation on cupped surfaces.

- Mastic asphalt screed should be fully sanded and should provide a minimum hardness class of IC10, IC15 as per EN 13813.



Product properties

- Waterproof
- Vapour-retarding
- Flexible and crack-bridging
- High tear resistance
- Alkali-resistant
- Non-ageing
- Rot-proof
- Quick installation
- Easy to use
- Low structural height
- Can be used with hot-water floor heating systems
- High compound adhesion with wedi installation materials
- Resistant to chemicals in accordance with DIN EN 1847

Technical properties

Material base	Polyethylene film with fleece layer on both sides
Membrane colour	grey
Membrane width	1 m
Membrane length	5 m, 30 m
Membrane thickness	0.51 mm
Weight	298 g/m ²
Processing temperature	+5°C to +30°C
Temperature resistance	-30°C to +90°C
Waterproof	see general building code test certificate
Diffusion equivalent air layer thickness (sd)	approx. 85 m
Fire behaviour DIN 4102-1	B2

Form of delivery

- 5 m roll (membrane width 1 m)
- 30 m roll (membrane width 1 m)

Storage

Store at a dry place. Do not continuously store at a temperature exceeding +30°C.

Disposal

wedi Subliner Flex is physiologically non-hazardous. Disposal of the material will not generate any hazardous waste. Cutting waste as well as compounds of top layer and wedi Subliner Dry should be disposed of as building site waste.

Safety information

The product data sheets of the stated and used wedi additional products should be complied with. In case of doubt, please obtain further information from the manufacturer.

wedi *Subliner Flex* | Decoupling membrane

General product description

Crack-bridging decoupling membrane made from stable reinforcing fabric that ensures excellent adhesion of tile-setting compounds thanks to its special fleece layer on each side.

Applications

wedi Subliner Flex serves for decoupling and reducing tension between top layers of ceramic tiles, slabs, and natural stone and the substrate for interior applications only. For high crack bridging particularly in the field of refurbishment and reconstruction with low structural height. Suitable for all load-bearing surfaces and mixed surfaces such as concrete floors, cement, anhydrite and mastic asphalt screeds, old parquet floors with good bonding, and cement, lime-cement and gypsum plasters.

Surface requirements

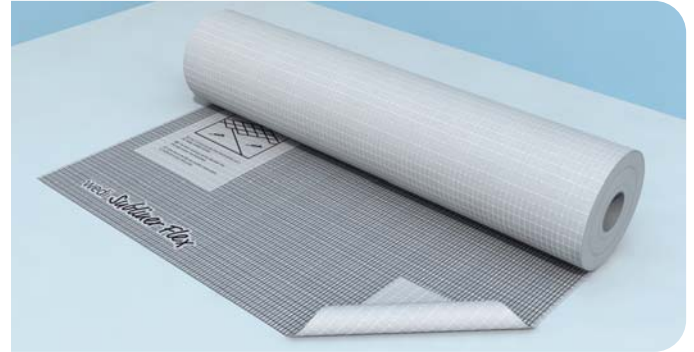
- All surfaces should be solid, load-bearing and even.
- Surfaces should be free from dust, dirt, loose components and separating agents such as oil, grease, wax, paint and coatings.
- Wooden floorboards should be solid and stable, and should not deflect. Loose or springing floorboards should be screwed down. The permitted equilibrium moisture content of the type of wood should be considered. Old paint on wooden floorboards should be sanded off. Joints and holes should be filled.
- All absorbent mineral surfaces should be primed. Smooth or non-absorbent surfaces that cannot be treated using surface treatment methods such as blasting etc. must also be primed.
- For use on heated screeds, the applicable ZDB data sheets concerning floor coverings on heated floor constructions should be observed.
- Concrete and lightweight concrete should be at least 3 months of age.
- The residual moisture must not exceed the following values:

Cement screeds*:	3.5 %
Calcium sulphate screeds:	0.5 %
Heated calcium sulphate screeds:	0.3 %
Gypsum-based plasters:	1.0 %

 (measurement with CM instrument)

* A level surface should be ensured; no installation on cupped surfaces.

- Mastic asphalt screed should be fully sanded and should provide a minimum hardness class of IC10, IC15 as per EN 13813.



Product properties

- Tension-reducing underlay for ceramic and natural stone floor coverings
- Flexible and crack-bridging
- High tear resistance
- Direct load transfer to surface finish
- Alkali-resistant
- Non-ageing
- Rot-proof
- Easy to use
- Quick installation
- Can be used with hot-water floor heating systems
- Suitable for use with electric floor heating systems
- Low structural height
- High compound adhesion with wedi installation materials

Technical properties

Material base	Polypropylene fleece on both sides with stable reinforcing fabric
Membrane colour	white
Membrane width	1 m
Membrane length	30 m
Membrane thickness	0.85 mm
Weight	220 g/m ²
Processing temperature	+5°C to +30°C
Temperature resistance	-5°C to +90°C
Fire behaviour EN 13501-1	E

Form of delivery

30 m roll (membrane width 1 m)

Storage

Store at a dry place. Do not continuously store at a temperature exceeding +30°C.

Disposal

wedi Subliner Flex is physiologically non-hazardous. Disposal of the material will not generate any hazardous waste. Cutting waste as well as compounds of top layer and wedi Subliner Flex should be disposed of as building site waste.

wedi *Subliner Dry & Flex* | Sealing and decoupling membranes

General product description

Flexible, crack-bridging sealing and decoupling membrane made from highly tear-resistant polyethylene film that ensures excellent adhesion of tile-setting compounds thanks to its special fleece layer on each side. This product can be used for fast sealing for projects with tight deadlines in conjunction with ceramic tiles, slabs, and natural stone wall and floor cladding for interiors and exterior use. The special membrane provides improved tension compensation, even if sudden temperature changes occur.



Applications

wedi Subliner Dry & Flex is a membrane sealing system for humid areas with moderate load, i.e. moisture exposure classes A0 and B0 as per the ZDB data sheet; this includes, but is not limited to:

- Domestic bathrooms
- Hotel bathrooms
- Balconies and terraces

With test certificate under building regulations, it is approved for use in forming a composite sealing layer in high-load wet areas of load classes A and C; this includes, but is not limited to:

- Shower systems
- Swimming pool surrounds
- Commercial kitchens and laundries

In areas requiring technical approval, only components verified with the system should be used. Corresponding information is included in the general test certificate under the building regulations.

Product properties

- Waterproof and vapour-retarding
- Decoupling and tension-reducing
- Flexible and crack-bridging
- High tear resistance
- Alkali-resistant
- Non-ageing and rot-proof
- Easy to use
- Quick installation
- Low structural height
- Can be used with hot-water floor heating systems
- High compound adhesion with wedi installation materials
- Resistant to chemicals in accordance with DIN EN 1847

Surface requirements

- All surfaces should be solid, load-bearing and even.
- Surfaces should be free from dust, dirt, loose components and separating agents such as oil, grease, wax, paint and coatings.
- Wooden floorboards should be solid and stable, and should not deflect. Loose or springing floorboards should be screwed down. The permitted equilibrium moisture content of the type of wood should be considered. Old paint on wooden floorboards should be sanded off first. Joints and holes should be filled first. Installation on wooden surfaces is only permitted in interiors.
- All absorbent mineral surfaces should be primed. Smooth or non-absorbent surfaces that cannot be removed should also be primed.
- For use on heated screeds, the applicable ZDB data sheets concerning floor coverings on heated floor constructions should be observed.
- Concrete and lightweight concrete should be at least 3 months of age.
- The residual moisture must not exceed the following values:

Cement screeds*:	3.5 %
Calcium sulphate screeds:	0.5 %
Heated calcium sulphate screeds:	0.3 %
Gypsum-based plasters:	1.0 %

 (measurement with CM instrument)
- * A level surface should be ensured; no installation on cupped surfaces.
- Mastic asphalt screed should be fully sanded and should provide of a minimum hardness class of IC10, IC15 as per EN 13813.

Technical properties

Material base	Polyethylene film with fleece layer on both sides	
Basis	Top: grey	Bottom: black
Membrane width	1 m	
Membrane length	15 m	
Membrane thickness	0.87 mm	
Weight	365 g/m ²	
Processing temperature	+5°C to +30°C	
Temperature resistance	-30°C to +90°C	
Waterproof	see general building code test certificate	
Diffusion equivalent air layer thickness (sd)	approx. 85 m	
Fire behaviour DIN 4102-1	B2	

Form of delivery

15 m roll (membrane width 1 m)

Storage

Store at a dry place. Do not continuously store at a temperature exceeding +30°C.

Disposal

wedi Subliner Dry & Flex is physiologically non-hazardous. Disposal of the material will not generate any hazardous waste. Cutting waste as well as compounds of top layer and wedi Subliner Dry & Flex should be disposed of as building site waste.

Safety information

The product data sheets of the stated and used wedi additional products should be complied with. In case of doubt, please obtain further information from the manufacturer.

wedi building board *Vapor*

General product description

The wedi building board Vapor is a composite element made from extruded polystyrene rigid foam reinforced on both sides with a special cement coating and with a vapour barrier on one side.

Applications

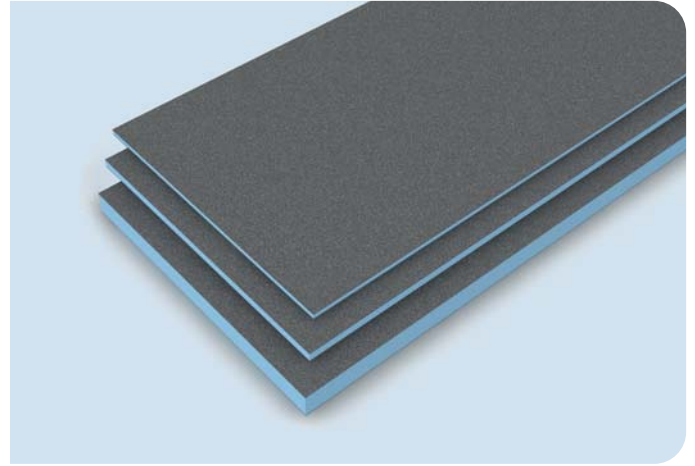
With its special properties, wedi building boards Vapor have a wide variety of applications:

- Carrier material for laying tiles using the thin-bed method
- Adhesive surface for applying plaster, tile adhesive and other materials
- Moisture protection
- Effective heat insulation
- Vapour barrier

The wedi building board Vapor is approved for interior use on swimming pool walls and ceilings, steam baths, communal shower facilities and any areas where a vapour barrier is required for structural reasons when internal thermal insulation is installed. Use on floors is only approved if no wheeled loads or concentrated loads are expected.

Product properties

Tile and plaster carrier element for thermal insulation and simultaneous vapour barrier in rooms with permanently raised humidity. wedi building boards Vapor can be fitted on almost any surface, and they are waterproof, heat-insulating, versatile and quick to install.



Surface requirements

Information on the processing and surface requirements can be found in the "General guidelines for use of wedi building boards, wall and floor applications". The joints are not formed in the way shown in the aforementioned general guidelines for use:

The joints are sealed using wedi Tools sealing tape, adhered in place in a layer of epoxy-resin adhesive. An additional layer of epoxy-resin adhesive is then applied over the sealing tape and a quartz sand blinding applied.

Form of delivery and storage

- Boards on pallets
- In principle, wedi building boards Vapor should be stored flat irrespective of their thickness. They should be protected against direct sunlight and moisture.

Technical properties – Rigid foam

Extruded polystyrene rigid foam core	XPS
Long-term compressive strength (50 years) $\leq 2\%$ compression EN 1606	0.08 N/mm ²
Compressive resistance at 10% compression EN 826	0.25 N/mm ²
Thermal conductivity EN 13164	0.036 W/mK
Bulk density DIN EN 1602	32 kg/m ³
Temperature limits	-50°C / +75°C
Fire behaviour DIN 4102	B1
Fire behaviour EN 13501-1	E

Technical properties – building board Vapor

Composite element made of extruded polystyrene rigid foam reinforced on both sides with a special cement coating and a vapour barrier on one side.

Colour	grey
Dimensions	600 x 2500 mm
Thickness	14 mm, 21.5 mm, 51.5 mm
Vapour barrier (sanded epoxy-resin vapour barrier)	1.5 mm
Diffusion equivalent air layer thickness, sd value (epoxy resin vapour barrier)	283 m
Resistance to water vapour diffusion (μ) EN 12086 (EP vapour diffusion)	188571
Fire behaviour DIN 4102-1 (from 4 mm board thickness)	B2
Fire behaviour EN 13501	E

Nominal thickness in mm	Thermal resistance $1/\Delta$ m ² x K/W ¹⁾	U-value W/m ² x K ²⁾
14	0,3	2,13
21,5	0,514	1,46
51,5	1,371	0,65

¹⁾ When determining the thermal resistance $1/\Delta$, thermal conductivity group 035 in accordance with DIN 4108 is taken as the basis for the thermal insulation.

²⁾ When determining the U-value, only wedi building board and heat transmission resistance $1/\alpha_i$ and $1/\alpha_a$ for external walls are taken into account. In specific applications, the existing masonry and other layers should also be included.

wedi *Nonstep Plan* | Impact sound deadening board

General product description

The wedi Nonstep Plan impact sound deadening board is a thin-layer rubber granulate mat with a flexible mineral coating used for decoupling under ceramic floor coverings, laminate or ready-to-lay parquet.

Applications

- For decoupling ceramic and natural stone floor coverings from the substructure
- For deadening impact sound when laying ceramic and natural stone floor coverings with a relatively low design height
- On all load-bearing surfaces such as concrete, wooden floorboards (not stairs)
- Underlay for floating floor coverings such as ready-to-lay parquet or laminate
- For residential type use. Not approved for wheeled loads with high concentrated loads.

Product properties

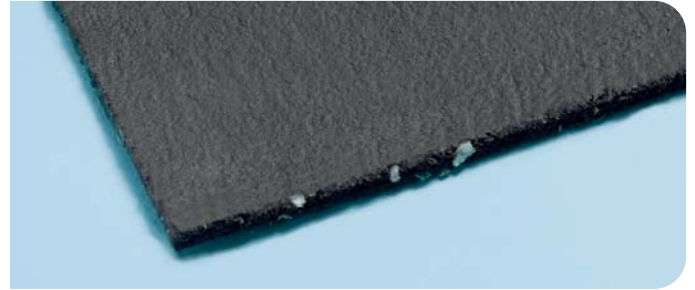
- Low structural height
- Low mass per unit area
- Simple to lay, economic way of reducing impact sound under ceramic and natural stone floor coverings
- Quick installation
- Stress-reducing underlay, decouples the covering from the surface
- Impact sound improved by 14 dB

Surface requirements

The surfaces should be even, clean, load-bearing, dry and free of vibrations. Level out any unevenness before laying. Make sure that Nonstep Plan covers the entire area.

Old floor coverings

When replacing old floor coverings (e.g. linoleum, carpet, PVC) with ceramic and natural stone floor coverings, all the old coverings should be removed and any resulting unevenness should be levelled out.



Old ceramic, artificial stone or natural stone coverings

Hollow slabs should be removed and the unevenness should be levelled out.

Concrete floors, screeds

Screeds should be even in accordance with DIN 18202 "Dimensional tolerances in building construction". Any unevenness should be levelled out with a suitable levelling compound.

Wooden floorboards

Existing wooden beam ceilings should be checked for their load-bearing capacity. The wooden structure must not sag or give (deflection max. $l/300$) and should be as rigid as possible and secured against height offsets. Loose planks or floorboards should be screwed back into place if necessary. Uneven floorboards should be levelled out (remove the board seams, prime the floorboards and level out with a levelling compound).

The following minimum specifications for wooden substructures should be met:

Solid wooden boards:	$\geq 16 \text{ mm}$, $p \geq 600 \text{ kg/m}^3$
Plywood boards:	$\geq 16 \text{ mm}$, $p \geq 520 \text{ kg/m}^3$
Planks / floorboards:	$\geq 21 \text{ mm}$

Form of delivery and storage

- Boards on pallets
- In principle wedi Nonstep Plan boards should be stored flat. They should be protected against direct sunlight and moisture.

The following should be ensured

- Do not use small tiles less than 10 x 10 cm in size
- Minimum tile thickness ≥ 8 mm
- Ceramic tiles and slabs should have a minimum breaking force of 1500 N
- Grouting complying with ATV DIN 18352 "Working with tiles and slabs" and ATV DIN 18332 "Working with natural stone" (grouting width ≥ 3 mm)
- Arrangement of expansion joints complying with DIN 18157 parts 1 – 3 "Application of ceramic tiling using the thin-bed method" (side length of the fields ≤ 8 m, compact fields with maximum field size of 40 m², joint width 5 – 10 mm)
- Expansion joints in the surface and structural joints should be matched when fitting Nonstep Plan
- If at all possible, lay ceramic and natural stone coverings without any cavities
- When using Nonstep Plan in wet or humid areas, a composite sealing element should be applied before the tiles or slabs are laid (for moisture load classes A0)

Technical properties – Impact sound deadening board

Material base	polyurethane-bonded recycled rubber material with styrofoam flakes and a special, flexible, mineral coating
Thickness	6 mm
Format	1200 x 600 mm
Density	600 kg/m ³
Tear strength	0.25 N/mm ²
Compressive strength at 30% deformation	0.65 N/mm ²
Static rigidity	s' = 56 MN/m ³ at the linear start of the load deflection curve in accordance with DIN 53421
Dynamic rigidity	s' = 97 MN/m ³ from resonant frequency 35 Hz at 2000 kg/m ² in accordance with EN 29052
Temperature resistance	-40°C to 115°C
Fire behaviour	B2 in accordance with DIN 4102
Impact sound deadening	$\Delta L_{WR} = 14$ dB in accordance with DIN EN ISO 140-8 (tested on concrete ceiling, under tiles)

Form of delivery

Boards on pallets

Storage

In principle wedi Nonstep Plan boards should be stored flat. They should be protected against direct sunlight and moisture.

wedi *Nonstep Plus* | Impact sound deadening board

General product description

The wedi Nonstep Plus impact sound deadening board consists of a 6 mm wedi building board bonded in the factory to a 5 mm rubber mat, creating an overlap. The impact sound deadening board is used for decoupling under ceramic floor coverings, laminate or ready-to-lay parquet.

Applications

- For decoupling ceramic and natural stone floor coverings from the substructure
- For deadening impact sound when laying ceramic and natural stone floor coverings with a relatively low design height
- On all load-bearing surfaces such as concrete, wooden floorboards (not stairs)
- Underlay for floating floor coverings such as ready-to-lay parquet or laminate
- For residential type use. Not approved for wheeled loads with high concentrated loads.

Product properties

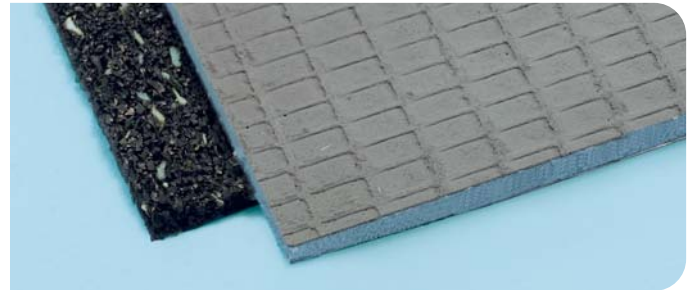
- Low structural height
- Low mass per unit area
- Simple to lay, economic way of reducing impact sound under ceramic and natural stone floor coverings
- Quick installation
- Stress-reducing board, decouples the covering from the surface
- Impact sound improved by 16 dB

Surface requirements

The surfaces should be even, clean, load-bearing, dry and free of vibrations. Level out any unevenness before laying. Make sure that Nonstep Plus covers the entire area.

Old floor coverings

When replacing old floor coverings (e.g. linoleum, carpet, PVC) with ceramic and natural stone floor coverings, all the old coverings should be removed and any resulting unevenness should be levelled out.



Old ceramic, artificial stone or natural stone coverings

Hollow slabs should be removed and the unevenness should be levelled out.

Concrete floors, screeds

Screeds should be even in accordance with DIN 18202 "Dimensional tolerances in building construction". Any unevenness should be levelled out with a suitable levelling compound.

Wooden floorboards

Existing wooden beam ceilings should be checked for their load-bearing capacity. The wooden structure must not sag or give (deflection max. $l/300$) and should be as rigid as possible and secured against height offsets. Loose planks or floorboards should be screwed back into place if necessary. Uneven floorboards should be levelled out (remove the board seams, prime the floorboards and level out with a levelling compound).

The following minimum specifications for wooden substructures should be met:

Solid wooden boards:	$\geq 16 \text{ mm}$, $p \geq 600 \text{ kg/m}^3$
Plywood boards:	$\geq 16 \text{ mm}$, $p \geq 520 \text{ kg/m}^3$
Planks / floorboards:	$\geq 21 \text{ mm}$

The following should be ensured

- Do not use small tiles less than 10 x 10 cm in size
- Minimum tile thickness ≥ 8 mm
- Ceramic tiles and slabs should have a minimum breaking force of 1500 N
- Grouting complying with ATV DIN 18352 "Working with tiles and slabs" and ATV DIN 18332 "Working with natural stone" (grouting width ≥ 3 mm)
- Arrangement of expansion joints complying with DIN 18157 parts 1 – 3 "Application of ceramic tiling using the thin-bed method" (side length of the fields ≤ 8 m, compact fields with maximum field size of 40 m², joint width 5 – 10 mm)
- Expansion joints in the surface and structural joints should be matched when fitting Nonstep Plus
- If at all possible, lay ceramic and natural stone coverings without any cavities
- When using Nonstep Plus in wet or humid areas, a composite sealing element should be applied before the tiles or slabs are laid (for moisture load classes A0)

Technical properties – Impact sound deadening board

Bottom	polyurethane-bonded recycled rubber material with styrofoam flakes
Top	6 mm wedi building board bonded with a rubber mat at the factory, creating an overlap.
Thickness	12 mm
Format	1200 x 600 mm (with overlap)
Temperature resistance	-40°C to 75°C
Impact sound deadening	$\Delta L_{w,R} = 16$ dB in accordance with DIN 52210 (tested on concrete ceiling, under tiles)

Form of delivery

Boards on pallets

Storage

In principle wedi Nonstep Plus boards should be stored flat. They should be protected against direct sunlight and moisture.



Tension decoupling



Subliner Flex serves for safe decoupling and reducing tension between top layers of ceramic tiles, slabs, and natural stone and the substrate for interior applications only. It has excellent crack-bridging properties and is ideally suited for use in renovations and restorations due to its low thickness.

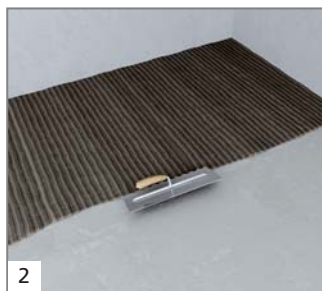


wedi system components:

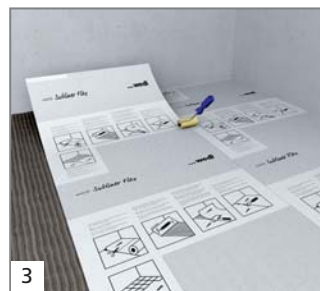
- wedi Subliner Flex



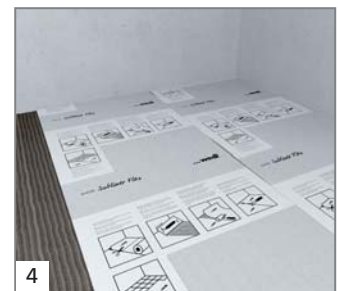
1 Lay out wedi Subliner Flex and cut by using carpet cutter or scissors.



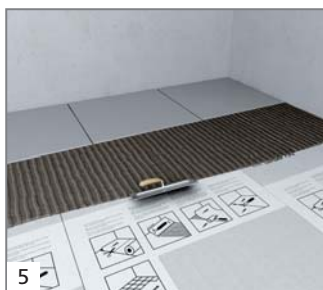
2 Apply wedi thin-bed mortar onto prepared surface, using 4 mm or 6 mm groove.



3 Place wedi Subliner Flex edge to edge – with the printed face upwards – and press by using a rubber roller or wooden board.

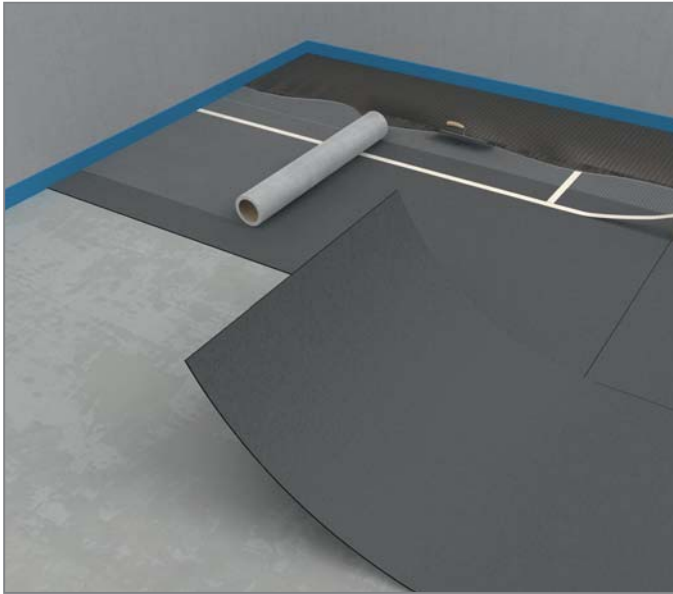


4 Remove any escaping mortar and/or air bubbles. Avoid cross joints.



5 The floor covering can be installed after curing of the thin-bed mortar.

Acoustic decoupling on slightly uneven surfaces



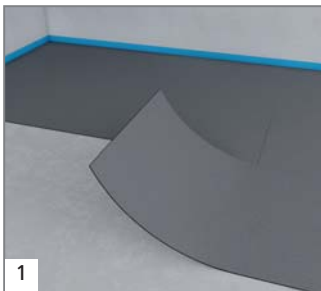
If the floor covering being renovated is slightly uneven, wedi Nonstep Plan is the product you need. The impact sound deadening board is made from recycled rubber material and XPS flakes bound with polyurethane, which is coated with a special flexible mineral sealing slurry. You can tile straight onto wedi Nonstep Plan once it has been fully reinforced with wedi Tools reinforcement tape. You only need to level out areas which are particularly uneven beforehand. The improvement in impact sound deadening under ceramic floor coverings is 14 dB.



wedi system components:

• wedi *Nonstep Plan*

• wedi *Tools* reinforcement tape 600 mm



1

Apply a perimeter isolation strip all around. Even out any rough unevenness before tiling. It can be cut simply using a carpet cutter.



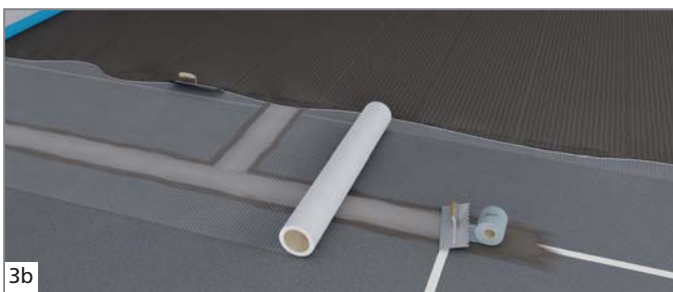
2

Seal the joints with masking tape to prevent acoustic bridging.



3a

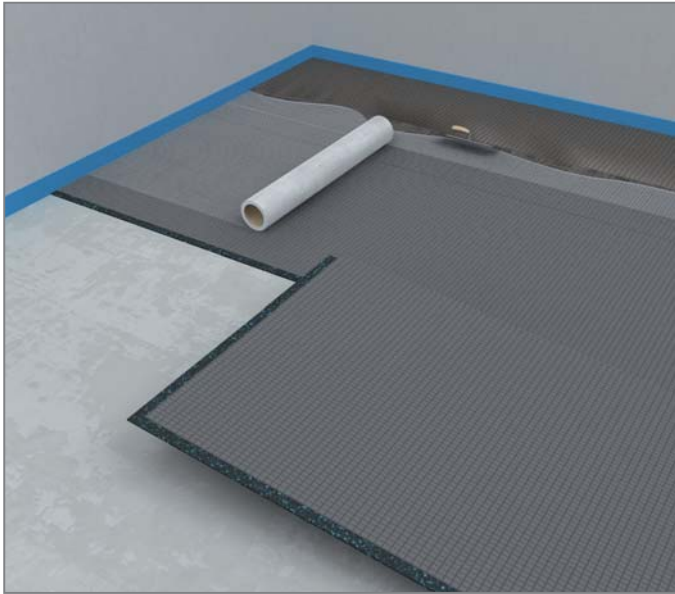
Apply the tile adhesive over the whole surface as a bonding layer. Lay the wedi Tools reinforcement tape into the tile adhesive with an overlap of 5 – 6 cm and bed it in with the trowel. It can then be tiled.



3b

If the area is to be sealed, the board joints should be covered with masking tape. Then, apply wedi Tools sealing tape as well as adhesive to the joints, and then again apply adhesive to the whole area. Then, apply self-adhesive wedi Tools reinforcement tape 600 mm over the entire surface area..

Acoustic decoupling on rigid surfaces



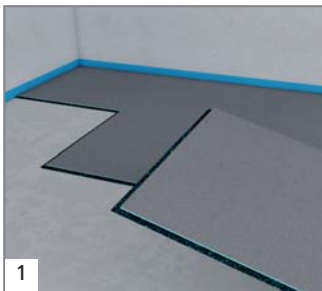
wedi Nonstep Plus impact sound deadening for rigid, level substrate is made from 6 mm recycled rubber material and XPS flakes bound with polyurethane. It is adhered to a 6 mm wedi building board to produce a ship-lap joint connection. After all-over reinforcement with wedi Tools reinforcement tape, tiling can be carried out directly onto the board without any other preliminary treatment. There is just one exception; if the floor is uneven it should first be levelled out using suitable fillers. The improvement in impact sound deadening under ceramic floor coverings is 16 dB.



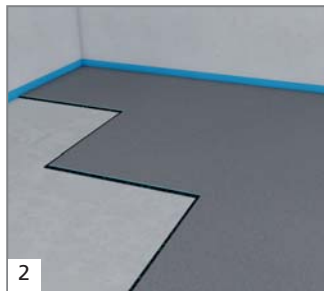
wedi system components:

• wedi *Nonstep Plus*

• wedi *Tools* reinforcement tape 600 mm



1
Before laying-up apply a perimeter isolation strip all around. Level out any unevenness of surface before laying.

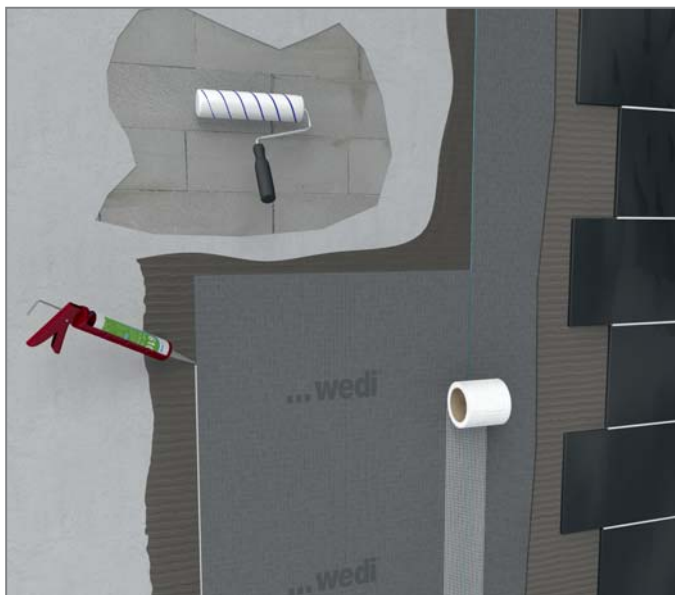


2
Install the impact sound-deadening boards. Avoid cross joints.



3
The entire board surface area is then reinforced with wedi Tools reinforcement tape and fixed in place in a layer of tile adhesive, making it ready for tiling. Alternatively, in wet areas, the seal can also be carried out with wedi 610 or wedi Tools sealing tape.

Sealing with building boards



The wedi building board is a board-type sealant that can be used for load classes A, A0 and B. This creates both a level surface and waterproof background in one step. Due to the joint sealing using wedi 610, the application of sealing tape is not required.



wedi system components:

- wedi building board
- wedi 610 adhesive sealant
- wedi *Tools* self-adhesive reinforcement tape
- wedi *Tools* sealing tape

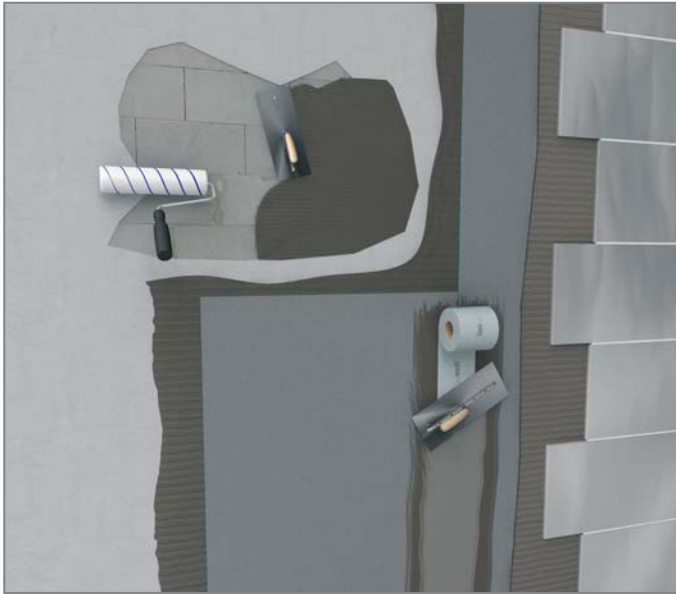


In wet areas, apply wedi 610 adhesive sealant to the joints. Then, the joints should be reinforced by using wedi *Tools* self-adhesive reinforcement tape.



Joints and holes can alternatively be sealed with wedi *Tools* sealing tape and tile adhesive.

Special sealing for wet area with high humidity



The wedi building board Vapor can be used as thermal insulation, sealing and – thanks to the factory-applied coating – also as a vapour barrier in rooms with permanently increased humidity. Regardless of whether being used in private or public shower and wellness systems – in the field of walls and ceilings, the wedi building board Vapor is one of the best and most protective carrier elements available on the market. As a matter of fact, it can receive both a tile and plaster based finish.



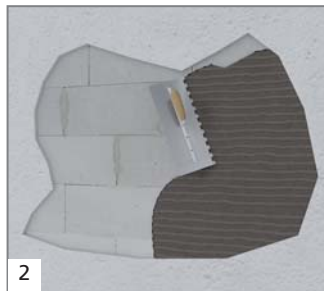
wedi system components:

• wedi building board *Vapor*

• wedi *Tools* sealing tape



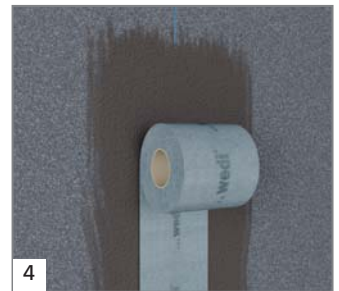
1 Clean the surfaces underneath before starting processing and prepare them with deep-penetrating primer or adhesive and bonding primer.



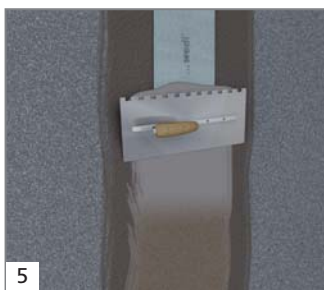
2 (Partial) levelling of the surface with a standard wall and floor repair filler.



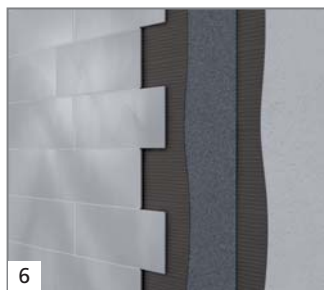
3 Fix the wedi building boards Vapor sanded side outwards, applying tile cement all over and align.



4 Apply epoxy-resin tile adhesive to the joints and install wedi Tools sealing tape.



5 Then cover with epoxy-resin tile adhesive and sand it with quartz sand.



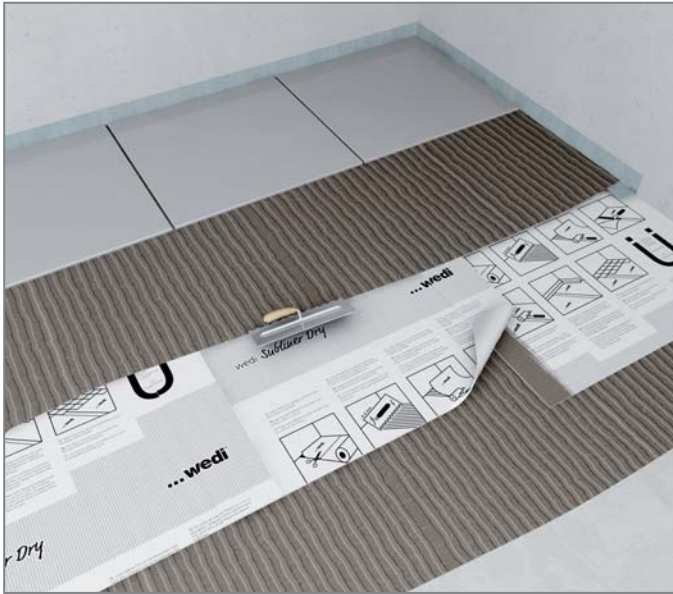
6 The tiling or plastering can then be carried out.



Please note:

The wedi building board Vapor can also be used on mortar or frameworks.

Use of sealing membranes



wedi Subliner Dry is a thin-layer, crack-bridging sealing membrane that ensures excellent adhesion of tile-setting compounds thanks to its special fleece layer on each side, guaranteeing a minimal increase in floor build-up. This product is particularly suitable for ceramic tiles and slabs and for natural stone cladding for internal walls and floors to provide quick sealing for projects with a tight deadline.



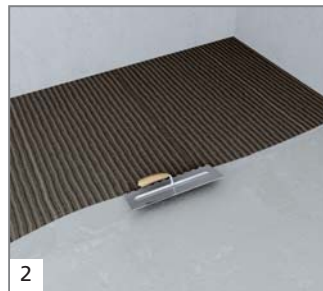
wedi system components:

• wedi Subliner Dry

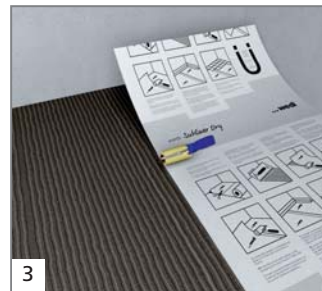
• wedi Tools sealing tape



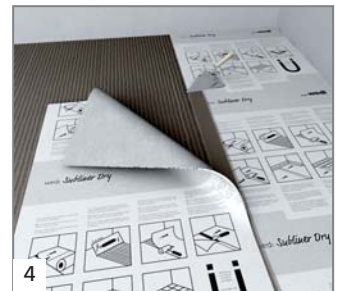
Lay out wedi Subliner Dry and cut by using a carpet cutter or scissors.



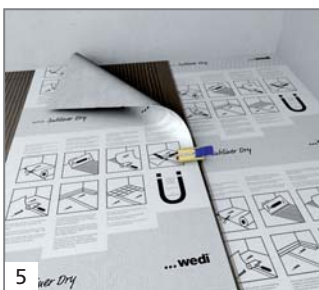
Apply wedi thin-bed mortar onto prepared surface, using 4 mm or 6 mm groove.



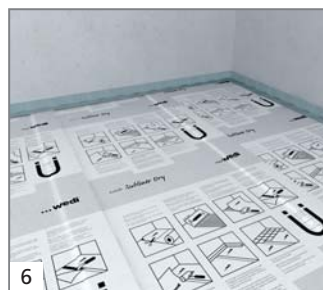
Place wedi Subliner Dry – with the printed side facing upwards – and press by using a rubber roller or wooden board.



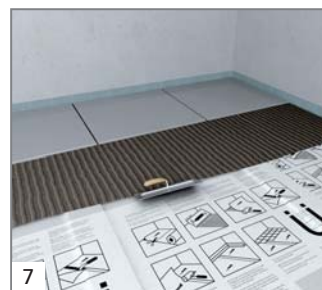
The joints of the membranes should overlap by approx. 5 – 10 cm. Apply cement adhesive within overlapping area.



Install second membrane and press overlapping area by using trowel or rubber roller.



Apply wedi sealing tape and cement sealants to corner joints and floor connections to ensure the joints are sealed.



The floor covering can be installed after curing of the thin-bed mortar. Then, the joint area must be sealed using the wedi Tools sealing tape as well as a sealant.

Sealing and tension decoupling



wedi Subliner Dry & Flex is an all-in-one sealing and decoupling solution. It is a flexible, crack-bridging sealing and decoupling membrane with special layer of fleecing material on both sides, providing optimum anchorage for tile laying materials. It is particularly suitable for ceramic tiles and slabs and for natural stone cladding for internal walls and floors to provide quick sealing for projects with a tight deadline. The special membrane provides improved tension compensation, even if sudden temperature changes occur.



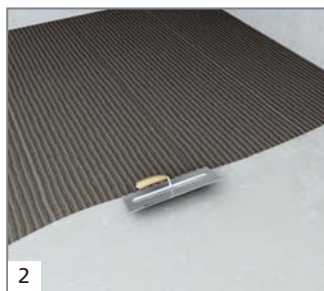
wedi system components:

• wedi *Subliner Dry & Flex*

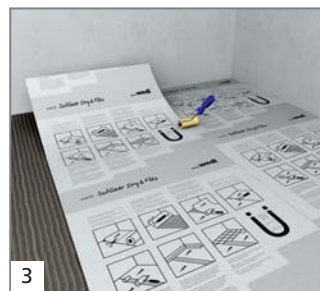
• wedi *Tools* sealing tape



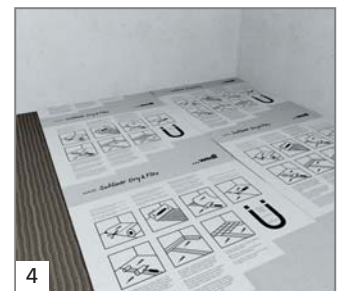
1 Lay out wedi Subliner Dry & Flex and cut by using carpet cutter or scissors.



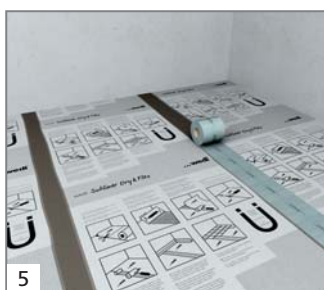
2 Apply wedi thin-bed mortar onto prepared surface, using 4 mm or 6 mm groove.



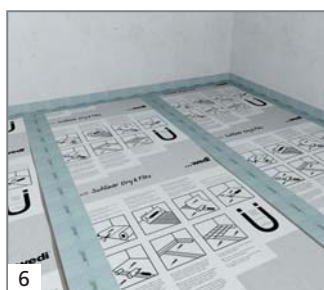
3 Place wedi Subliner Dry & Flex edge to edge – with the printed side facing upwards – and press by using a rubber roller or wooden board.



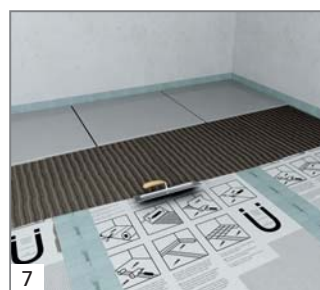
4 Remove any escaping mortar and/or air bubbles. Do not overlap.



5 In the joint area, apply wedi sealing tape over the joints, embedded in a layer of cement based adhesive in order to ensure waterproof sealing. Press over the joint area by using trowel or rubber roller.



6 Apply wedi sealing tape and cement sealants (for outside) to corner joints and floor connections to ensure sealing. Centrally apply sealing tape onto joint.



7 The floor covering can be installed after curing of the thin-bed mortar.



wedi building board systems



wedi floor-level showers



wedi design elements



wedi sealing and decoupling



wedi wellness projects



wedi system chemistry



wedi practical auxiliaries



wedi support



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