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aluminium

Mats and accessories

Overview and Contents

Dear customers,

Tile coverings are only waterproof to a certain extent.

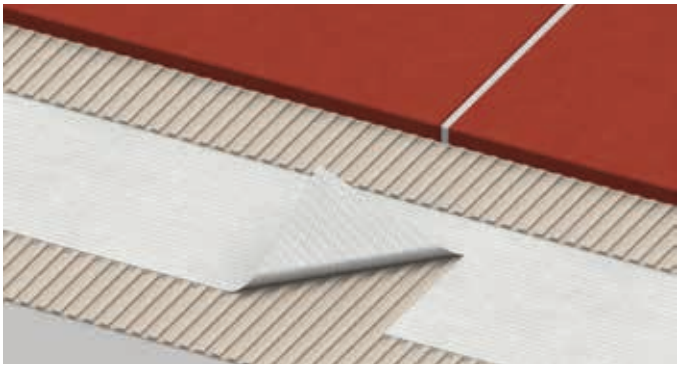
Moisture can penetrate into the substrate through joints or loose and cracked tiles, leading to efflorescence and moisture damage to the building fabric.

On balconies, temperature changes such as frost and heat can cause damage such as cracks in the substrate and spalling. A seal is therefore essential.

A cracked and loose tile covering can also be the result of substrate expansion and shrinkage or a critical substrate such as cracked screed or wood.

Existing cracks in the substrate can lead to problems during the laying process. Isolating the tile covering from the substrate can prevert this.

Isolation and impact sound insulating mat



For dry areas indoors

- When laying tile coverings on a critical substrate, the isolation mat is used to create ceramic tile, slab or natural stone coverings that can be taken back up again
- Ideal for use in renovation work if a low installation height is required
- As a safety and anti slip surface when substrates are not yet suitable to be covered, horizontal length changes are expected, cracks in the substrate have to be bridged or mixed substrates need to be covered
- Suitable for hot-water underfloor heating

Properties

- Isolating
- Crack-bridging
- Tension reducing
- Pressure-resistant
- Noise insulating

Technical data item no. 00555

Colour:	white
Thickness:	approx. 1.3 mm
Weight:	1.35 kg/m²
Processing temperature:	+5 °C to +30 °C
Impact sound improvement:	approx. 9 dB
Compressive load capacity:	5 kN/m²

Laying instructions

Substrates

Substrates must be stable, even, clean and suitable for being covered with tiles. Prepare porous substrates in accordance with the adhesive manufacturer's instructions. Other substrates must comply with the criteria described.

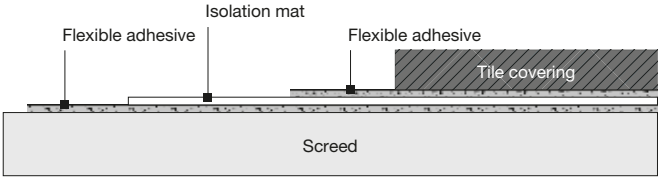
Processing

On rough substrates such as screed or concrete, the strip is stuck on with a good flexible adhesive. On levelled substrates or even, porous surfaces such as chipboard or dry screeds, the mat can also be laid in a fixing element. If coverings are expected to be subjected to high loads and shear stress in commercial areas, as well as in the event of high levels of residual moisture, the entire isolation mat must always be fully secured with flexible adhesive. Mix the adhesive until soft-plasticised and comb it onto the entire surface area using a 4 mm-notched trowel.

Measure the mat strips and cut them to size. Comb on the adhesive across the full width of the mat and place the first strip on the still fresh adhesive, smoothing it out and pressing it in with the notch-free side of the trowel. Repeat the process to lay the following mats flush to the previous mat, continually offsetting the transverse end joints. When applying the laying mortar for the isolation mat, ensure that no mortar bridges are created with walls and structural components (retain a gap). Once the mortar has hardened, tape over the end joints with masking tape at least 2 cm wide to prevent adhesive seeping into the mat joints when the tiles are laid and disrupting the isolation effect.

Lay the tiles using a high quality, plasticised, flexible adhesive or tile bed adhesive. First apply a smooth contact primer and then lay the tiles wet-on-wet leaving as few cavities as possible. Once the adhesive has hardened, grout the tiles using a grout that is suitable for floors.

Important information

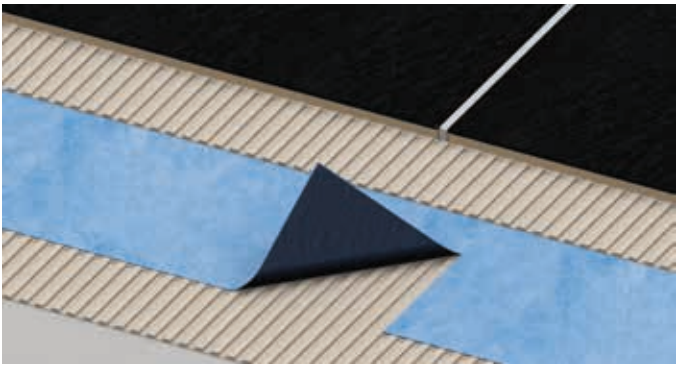


- If the joints between the tiles are not evenly and entirely free from adhesive, speckles and cracks may form in the grout. Observe the instructions provided by the manufacturer of the laying substance used.

- Always cover the entire area!

- Ensure that sufficiently sized expansion joints separate the tile coverings from all walls and protruding structural components and that they are divided into suitable field sizes for the conditions.

Isolation and sealing mat



For damp and wet areas indoors and outdoors

- The isolation mat is used to create ceramic tile, slab or natural stone coverings that can be taken back up again
- Tile coverings are laid on critical substrates
- Tension cracks in the substrate are compensated and not passed on to the tile covering
- Optimal pressure equalisation in the event of concentrated loads
- Protection against unpressurised water
- Suitable for all forms of underfloor heating

Properties
- Isolating and sealing
- Crack-bridging
- Tension reducing
- Pressure-resistant

Technical data item no. 00556

Colour:	blue/grey
Thickness:	approx. 0.85 mm
Material:	PP/PE fleeced
Weight:	approx. 450 g/m²
Transverse elongation:	approx. >= 130 % (DIN ISO 527) at max. tensile force of 450 N/50 mm
Longitudinal elongation:	approx. >= 100 % (DIN ISO 527) at max. tensile force of 550 N/50 mm
Processing temperature:	+5 °C to +30 °C

Laying instructions

Substrates

The substrates must be sufficiently dry, even, clean, free from adhesion-reducing substances and suitable for being covered with tiles. All porous surfaces must be prepared in accordance with the adhesive manufacturer's instructions. All fillers must be applied before the mat strips are laid. In doing so, the application guidelines for the filler material used must be observed. Existing cracks in the covering must be professionally sealed and dowelled.

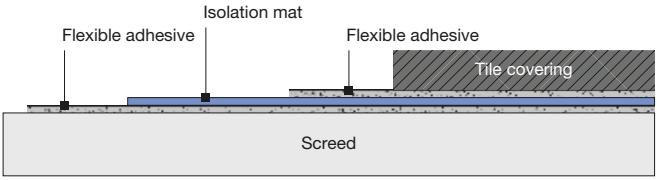
Processing

Primers and fillers must be solid, dry and hardened. The mat is laid (blue-side up) with a suitably flexible thin-bed mortar, preferably in the drainage direction. Air bubbles under the mat strip should be avoided. The lower fleece must be fully moistened with adhesive. When applying the laying mortar for the isolation and sealing mat, ensure that no mortar bridges are created with walls and structural components. The prepared substrate must be primed and/or pre-treated on the basis of its type and structure and in line with the mortar or adhesive used, ready for the adhesion of the mat. The mat should be stuck in place using low shrinkage thin-bed mortar of at least C2 S2 quality pursuant to DIN EN 12004/12002. Use a 6 mm notched trowel to comb on the thin-bed mortar across the strip width. Next, lay the mat strips, rolling them out with a suitable tool or smoothing them with a smooth float or smoothing block. Only comb on as much adhesive/mortar as will remain wet in the time it takes you to lay the strips. When smoothing out the strips, ensure that the upper fleece layer is not damaged.

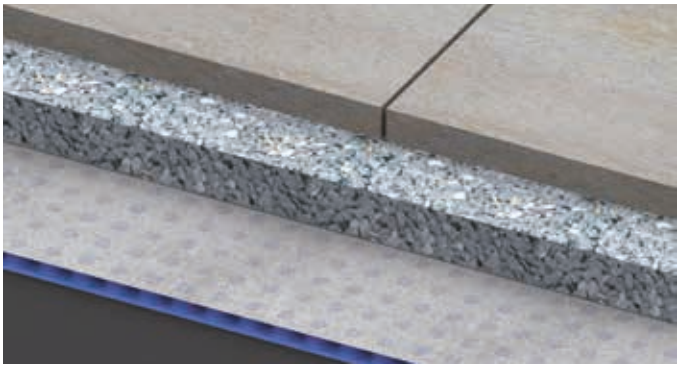
The isolation and sealing mat must be adjoined flush on balconies and in wet areas and be reworked with the sealing strip item no. 00560. The sealing strip is preferably affixed over the end joints using a flexible 2K sealing slurry or a suitable sealing adhesive. On balcony profiles, introduce the strip and seal it to the metal bracket using the self-adhesive sealing strip item no. 00569. The non-self-adhesive side of the sealing strip is again attached to the film using a flexible 2K sealing slurry.

A gap in the size of the intended joint width must be left between mats in the area of constructional, connection and field boundary joints. Joints at the end of strips or on cuts must be offset at least 25 cm from the adjacent joints (no cross joints). Ensure that no laying mortar or adhesive is pressed up into the joint area. Preferably run a trowel along the edge of the already laid strip to diagonally wipe off the combed mortar/adhesive. Only step on the newly laid mats on boards or pieces of timber.

On balconies, make sure you create a slope of at least 1.5 %. The upper coverings are laid once the adhesive/mortar under the mat is suitably solid. To lay the tiles or slabs, comb on the adhesive/mortar with a suitably notched trowel. Lay the tiles or slabs as per professional rules and slide them into place to bed them in as fully as possible.



Drainage mat



For balconies and terraces covered in a grit or gravel bed

- For laying across a horizontally laid, sloping seal for draining a whole area
- For laying on a grit/gravel bed or in drainage mortar

Properties
- Suitable for drainage

Technical data item no. 00550

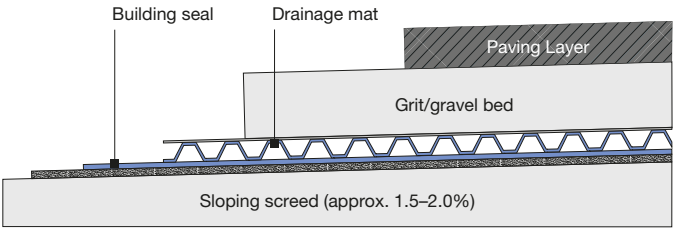
Colour:	blue
Installation height:	approx. 10.6 mm
Material:	PE-HD, non-woven fabric: PP
Weight:	approx. 750 g/m²
Pressure resistance:	max. 400 kN/m² (40 t/m²)
Drainage capacity:	approx. 4.3 l/s/m

Laying instructions
The substrate must be clean and have an adequate slope (1.5-2 %).

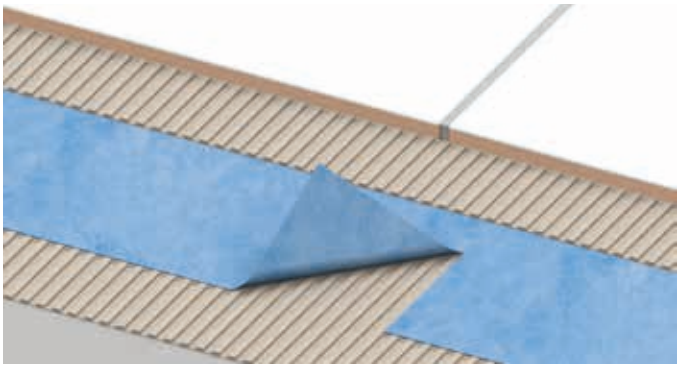
A building seal in accordance with the corresponding DIN standard must be placed under the drainage mat. The strip is spread out loosely on the stable substrate. The joints are positioned with

2 – 3 rows of pimples on top of each other and overlapped with the protruding non-woven fabric. Ensure that the joints run parallel to the slope to prevent water from collecting.

The covering can then be laid in the screed or grit/gravel bed in the usual way. Leftover material can be disposed of with household waste.



Sealing film



For damp and wet areas indoors and outdoors

- For reliably sealing wall and floor areas in showers, baths and other damp and wet areas
- Substrates in dry construction are particularly well suited, as are all even, stable areas that can be covered with tiles
- Suitable for hot-water underfloor heating

Properties
- Sealing

Technical data item no. 00567

Colour:	blue
Thickness:	approx. 0.45 mm
Material:	PP fleeced
Weight:	approx. 270 g/m²
Expansion:	>= 40 %
Maximum transversal tensile force:	170 N/50 mm
Maximum longitudinal tensile force:	250 N/50 mm
Processing temperature:	+5 °C to +30 °C

Laying instructions

Substrates

All even, solid surfaces that can be covered with tiles or slabs are suitable. Occasional small cracks will not cause damage providing the crack edges are not staggered. The substrate must be free from separating substances. Separating cracks must be professionally assessed and sealed in advance where necessary. Porous and lightly sanded substrates must be prepared in line with the adhesive manufacturer's instructions. Heated screeds must be pre-heated in accordance with recognised technical regulations.

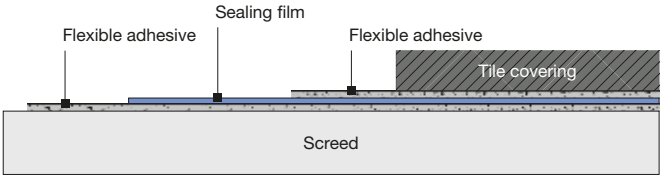
Processing

Cover the entire sealing film in polymer-modified flexible adhesive. Uneven areas must always be levelled under the sealing film. In areas subject to moisture, a 1.5 % drainage slope must be created in the floor area.

A sealing strip item no. 00560 must be fully incorporated at the floor/wall transition point using flexible adhesive. The sealing strip must be laid in loop format over expansion joints. The sealing film must be placed up to baths or shower trays and sealed using the self-adhesive sealing strip item no. 00569. The non-self-adhesive side of the sealing strip is attached to the film using the flexible adhesive. Ensure that no mortar bridges are created with walls and structural components.

Use a maximum 4 mm notched trowel to comb the mixed adhesive onto the stable, professionally prepared substrate in a strip approximately 10 cm wider than the mat strip. Place the precisely pre-measured and cut strips into the fresh adhesive and use the notch-free side of the trowel to press them in and smooth them out. The strip must be positioned so that there are no air bubbles left under it. Glue the next strips into place, with each strip overlapping the one before it by at least 10 cm.
Like when wallpapering, overlap the strips in the corners or butt them up to the corner. If the strips are butted up to a corner, additionally attach the sealing strip item no. 00560.

Wall tiles can be attached as soon as the strip has been glued on. On floors, the adhesive under the strip should be hard before laying the tiles as movement can otherwise cause the formation of uneven areas.

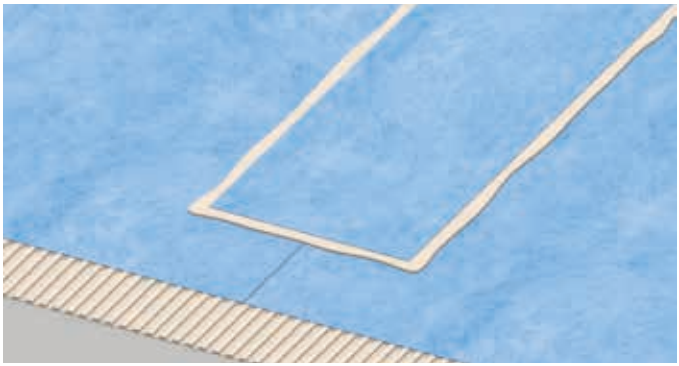


Important information

- Lay the tiles on the sealing film in the usual professional manner. In doing so, always start by applying a thin scratch coat so that you can then work wet on wet.

- Ensure that sufficiently dimensioned expansion joints separate the tile covering from all walls and protruding or restrictive structural components and that the covering is divided into suitable fields using professionally arranged expansion joints.

Sealing strip



For damp and wet areas indoors and outdoors

- For reliably sealing connection and expansion joints indoors and outdoors in conjunction with membranes under tiles and slabs

- Also for sealing ends and corner areas when laying the isolation and sealing mat item no. 00556 and the sealing film item no. 00567.

Technical data item no. 00560

Colour:	blue
Installation height:	approx. 0.3 mm
Material:	PP fleeced
Max. transversal tensile force:	>30 N/15 mm
Expansion:	> 40 % (DIN ISO 527)

Properties
- Sealing

Laying instructions
Use the intended sealing substance or adhesive to glue the entire sealing strip across both sides of the joint and at least rework the edges. Overlap the edges by at least 5 cm and carefully glue them into place.

The floor/wall connection joint must be free from mineral sealant and adhesive at both the top and bottom of the sealing strip. This is the only way to prevent sound bridges.

Professional sealing tape

For damp and wet areas indoors and outdoors

- Sealing strip for reliably sealing connection and expansion joints indoors and outdoors in conjunction with membranes under tiles and slabs

Properties
- Sealing
- Expandable

Technical data item no. 00562

Colour:	grey
Installation height:	approx. 0.4 mm
Material:	EPDM
Expansion (max. tensile strength):	Longitudinal: 38.2 % Transversal: 134 %
Processing temperature:	+5 °C to +30 °C

Laying instructions
Glue on the full strip in the joint area and rework the edges. Insert the pre-prepared internal and external corners into corners. To avoid sound bridges, the floor/wall connection joint must be free from mineral sealant and adhesive at both the top and bottom of the sealing strip.

Professional internal and external corners

Product to complement the professional sealing tape for simply sealing corner areas. Item no. 00565 (internal corner) and item no. 00566 (external corner)

Wall sleeve

For sealing plumbing installations or other holes made in the wall. Item no. 00564

Notes – technical diagrams

Dimensions
The dimensions indicated in this brochure are approximate values and may deviate slightly in either direction.

Product versions
We reserve the right to make modifications in the interest of technical progress and product improvement.

Warranty
As this is an abridged brochure, no liability can be accepted for either individual cases or the reproduction of the models shown.

Colours
The colours depicted may vary slightly from the original products.

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combitech® system · basis
System profiles · metric threaded rods and threaded tubes · system accessories · tool range

combitech® system · connect 23.5 mm
Connect connectors 23.5 mm · system profiles 23.5 mm · system accessories

combitech® system · model construction
Connect connectors 7.5mm · System profiles 7.5 mm · system accessories **logika**® profiles · metric threaded rods · expanded metal, smooth, embossed and perforated sheets

combitech® system · sheets, plates and accessories
Plastic panels · smooth, embossed, perforated and expanded sheets · Prismatech · Multitube · checker plate profiles · accessories

Profiles for DIY and professional purposes
Standard profiles made from aluminium, brass, plastic, steel, stainless steel clampline clamping aluminium profiles

Steel profiles

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Tile edgings

Angle, round, quarter-circle and square tile edgings · tile edgings for steps LED profiles · joint cover profiles and expansion joint profiles · wet sealing profiles **clipstech**® system profiles · balcony angle · mats and accessories

Floor and room profiles

Cover and joint cover profiles · edging, level balancing, angle edging and end profiles · step edging profiles · Edge protecting profiles · Baseboard and buckling angles

Profiles for parquet, laminate and designer floors

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verando® Decking boards

verando® combines sophisticated design and sustainability.
The weatherproof profiles, mainly made of rice husks, are more durable than other wood or wood substitute products, they don´t splint, crack or swell.

alfer® classification system range

combitech® system · **logika**®

The logically perforated profile range: **logika**® profiles and **logika**® accessories

combitech® system · **coaxis**®

The coaxial system profiles: system profiles, accessories and tools · wall and ceiling hooks

Storage range

System rails and accessories · profile hooks, clothes hooks and utensils supports · bicycle stands · shelving brackets · Furniture construction profiles and plant trolley

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