Technical data sheet

OMEGA BASETOP SK

Is a high vapour-impermeable moisture and radon barrier. The special multi-layer sheeting consists of a quality corrosion-resistant aluminium layer with fleece reinforcement on both sides. The sheeting was specially developed as damp-proofing for use on floor slabs with ground contact as a protection against ascending moisture in accordance with DIN 18195-4 or on intermediate floors, as vapour barrier above rooms which are subject to a high degree of stress in terms of construction physics. The adhesive backing on both sides permits a quick, clean and tight seam during handling. Also available with full-surface waterproof acrylic adhesive. (OMEGA BASETOP SK available in various widths).

Advantages

- Highly flexible
- Resistant to perforation
- Alkali-resistant
- Vapour impermeable
- Water-tight
- Radon-tight
- Also available in narrower dimensions on request

Field of application

- seal on floor slabs with ground contact against ground moisture
- concrete floor against residual moisture
- intermediate floor as vapour barrier
- radon barrier
- vapour barrier below non-ventilated roof insulation

Recommended products

	OMEGA PLASTO Tape
	OMEGA Alu-Butyl RGD Pipe Sleeve
	UNI SPRAY Primer Spray
	UNI XL Primer Spray
	OMEGA FROZEN Adhesive Paste

Available dimensions

Article number	Type	Roll width	Roll length	Rolls / Pallet
50MBTSK	SK	1.5 m	25 m	24 rolls

Technical data

sd-value	> 1500 m	Material composition	Aluminum composite foil and PP nonwoven fabric
Elongation (EN 12311-1) lengthwise	20 % (+-10)	Elongation (EN 12311-1) crosswise	16 % (+-10)
Tensile strength (EN 12311-1) lengthwise	1050 (+-150) N/50 mm	Tensile strength (EN 12311-1) crosswise	820 (+-120) N/50 mm
Tear propagation resistance (EN 12310-1) lengthwise	400 N (-150/+200)	Tear propagation resistance (EN 12310-1) crosswise	430 N (-160/+170)
Thickness	0.4 mm	Temperature resistance	-40–80 °C
Weight	260 g/m²	Colour	Lightgrey
Resistance to water flow (EN 1928)	W1	Shearing resistance of the connection joints	740 N (+-40 N)
Fire performance (EN 13501-1 / EN 11925-0)	E		

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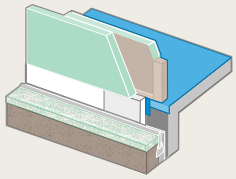
Processing Guideline

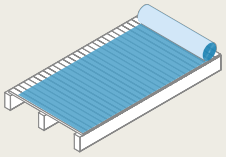
OMEGA BASETOP SK

Info

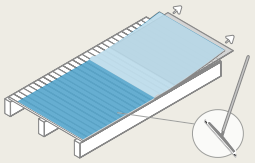


The sheeting is laid loosely with approx. 10 cm overlap on even ground surfaces which are free from sharp edges and soiling. If required the membrane can be bonded with the substrate over the entire surface using UNI XL Primer Spray (contact bonding method). If required the substrate may be pre-treated using UNI Primer Spray.

Adhesive technique



OMEGA BASETOP SK must be bonded with the substrate over the entire surface. We recommend first cutting the required quantity to length, pulling the liner away a little and attaching the OMEGA BASETOP SK at one end of the construction component. The second step is to gradually pull off the liner on both sides, at the same time rubbing on the sheeting to keep it bubble-free, using e.g. a wide squeegee or wide, straight brush. The liner can be wound around a square timber and then pulled off. In this way the tension used when pulling can be evenly distributed and a crease-free and smooth bond is achieved. Overlaps of the adhesive tape should be min. 10 cm. Sufficient pressure must be applied to the open edge using a pressure roller.
The construction product OMEGA BASETOP screed sheet is processed for the manufacture of the seal in conjunction with the following components:



OMEGA BASETOP SK screed sheet: Minimum width 20 cm.
With self-adhesive, waterproof acrylate coating.
Note: In the connection and finishing area on penetrating and rising components (walls, wall bases, door and window frames, etc.), the OMEGA BASETOP SK screed sheet also performs the sealing function.

OMEGA PLASTO Tape:
PES nonwoven with waterproof butyl adhesive, thickness 0.6 mm.
Note: In the connection and finishing area on penetrating and rising components (walls, wall bases, door and window frames, etc.), the OMEGA PLASTO tape also performs the sealing function.
Width at least 75 mm when bonding the transverse joints.
Width at least 200 mm with vertical flashing.

OMEGA Alu-Butyl Pipe Sleeve: for pipe penetrations.
Aluminium carrier with butyl adhesive (in various dimensions).

Execution recommendations for manufacturing the surface seal

Sealing of floor slabs:

- In the case of use on the floor slab, the flexible sheet for waterproofing must always be installed in at least a single layer and protected between floor slab and directly applied screed, between floor slab and directly applied insulation (floating screed) or between height compensation (e.g. compensation screed, bonded levelling compound) and insulation on top (floating screed) or between the insulation and the directly applied screed.

- The flexible sheets for waterproofing must be laid loosely on the substrate with the nonwoven side facing downwards and with an overlap of the long seams of about 10 cm. The longitudinal seams are bonded by the cold self-adhesive edge strips. The overlaps must be carefully pressed on with a pressing roller/pressing trowel.

- The flexible sheets for waterproofing must be laid loosely on the substrate with the nonwoven side facing downwards and with an overlap of the long seams of about 10 cm. The longitudinal and transverse seams are bonded by the adhesive coating. The overlaps must be carefully pressed on with a pressing roller/pressing trowel.

- Individual sheet sections (longitudinal seams and transverse or head seams) are manufactured by laying the sheet with an overlap of 10 cm. An OMEGA BASETOP SK screed sheet with a width of at least 20 cm must be adhered over the joint areas. The transverse joints can also be executed with the OMEGA PLASTO tape 75 mm.

- Individual sheet sections (longitudinal seams) can also be laid with a larger overlap. The longitudinal seams are then bonded only by the single-sided cold self-adhesive edge strips.

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- Connections and finishings at penetrations or rising components must be manufactured using an OMEGA BASETOP SK screed sheet with a width of at least 20 cm and an overlap of at least 10 cm in each case. Alternatively, penetrations as well as connections and finishings for rising components can also be manufactured with the OMEGA PLASTO tape with a minimum width of 20 cm and a minimum overlap of 10 cm in each case. For pipe penetrations, the OMEGA aluminium butyl pipe sleeves in various versions or the OMEGA PLASTO tape are possible.

- For the connection and finishing at penetrations or rising components, the sheet can also be guided upwards on the component (if necessary, using the OMEGA FROZEN adhesive paste assembly adhesive as an assembly aid).

- The OMEGA BASETOP screed sheet must be brought up close to the damp proof course or bonded to it in such a way that no moisture bridges can be created, especially in the area of plastered surfaces.

- Particular attention should be paid to ensuring an airtight execution. Proper sealing of the penetrations is indispensable, especially for protection against radon gas.

Adhesion on the following substrates

Wood, wooden composite boards (OSB, MDF, 3S-boards, chipboard, plywood...), synthetics, metal free from oxidisation and rust, masonry, unsanded concrete. The materials used must be free from dust, grease and silicone, the substrates must also be dry and stable. For rough wood, similar uneven substrates, and at low temperatures, we recommend pre-treatment of the substrate with one of ISOCELL's primers. Please note that at low temperatures, and even at slight temperature changes, surface condensation may occur. This has the effect of a release layer and reduces adhesion. After applying the construction waterproofing a curing process takes place. Depending on the temperature this can take 6 – 24 hours. Only then is complete adhesion achieved.

Visual inspection

Before applying further layers, the OMEGA BASETOP screed sheet for waterproofing should be subjected to a thorough visual inspection and any damage must be eliminated in accordance with the manufacturer's recommendations. Further layers must be installed immediately after approval.

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