

Technical data sheet



OMEGA BASETOP SK DUO

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.



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

Available dimensions

Article number	Type	Roll width	Roll length	Rolls / Pallet
50MBTE	SK DUO	1.5 m	25 m	40 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/m ²	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

Recommended products

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

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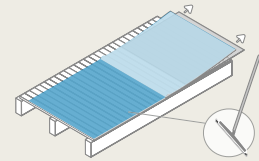
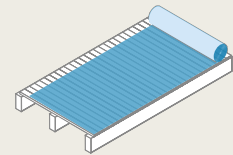
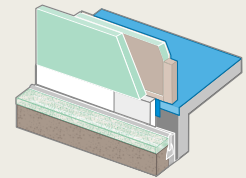
Info

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 OMEGA UNI XL Primer Spray (contact bonding method). If required the substrate may be pre-treated using UNI Primer Spray.



Adhesive technique

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). The OMEGA BASETOP SK screed sheet (screed sheet with full-surface acrylate coating) can also be used as an alternative to the OMEGA BASETOP SK DUO screed sheet. The OMEGA BASETOP SK DUO is laid with an overlap of at least 100 mm and the sheets are bonded to one another by the integrated self-adhesive strips. If necessary, the substrate should be pretreated with UNI spray primer.



Recommendations for the Execution of Surface Waterproofing

Sealing of Floor Slabs:

- When applied horizontally on the floor slab, the waterproofing membrane must always be protected between the floor slab and directly applied screed, between the floor slab and directly applied insulation (floating screed), or between height compensation (e.g., leveling screed, bound fill) and the overlying insulation (floating screed), or between the insulation and the directly applied screed, installed at least in a single layer.
- The waterproofing membrane is to be laid loosely with the fleece side down on the substrate with an overlap of longitudinal seams of approximately 10 cm. Longitudinal seams are bonded using the cold self-adhesive edge strips. Overlaps must be carefully pressed with a pressure roller or pressing spatula.
- Individual membrane sections (longitudinal and transverse/end seams) are installed with a 10 cm overlap. Joint areas must be covered using an OMEGA BASETOP SK membrane at least 20 cm wide. Transverse seams can also be executed with OMEGA PLASTO tape, 75 mm wide.
- Individual membrane sections (longitudinal seams) may also be installed with a larger overlap. In this case, the longitudinal seams are bonded only with the single-sided, cold self-adhesive edge strip.
- Start and end points at penetrations or vertical building elements must be executed using an OMEGA BASETOP SK membrane at least 20 cm wide, with a minimum overlap of approximately 10 cm. Alternatively, penetrations and start/end points at vertical elements can also be executed using OMEGA PLASTO tape, with a minimum width of 20 cm and 10 cm overlap. For pipe penetrations, OMEGA Alu-Butyl pipe collars in various versions or OMEGA PLASTO tape can also be used.
- For start and end points at penetrations or vertical elements, the membrane can be carried up the building element if necessary using OMEGA FROZEN adhesive paste as an installation aid.
- The OMEGA BASETOP membrane must be aligned to or bonded with the wall barrier to prevent any moisture bridges, especially in plastered areas.
- Special attention must be paid to airtight execution. Proper sealing of penetrations is essential, particularly for radon protection.

Adhesion to the Following Substrates:

Wood, wood-based panels (OSB, MDF, 3S, chipboard, plywood...), plastics, metals free of oxides and rust, masonry, non-sandy concrete. Materials to be processed must be free of dust, grease, and silicone, and the substrates must also be dry and load-bearing. For rough wood, comparably uneven substrates, and at low temperatures, pre-treatment of the substrate with one of the ISOCELL primers is recommended. Please note that at low temperatures, even small temperature changes can cause surface condensation. This acts as a separating layer and reduces adhesion. After applying the construction-period waterproofing, a "networking process" takes place, which lasts approximately 6-24 hours depending on temperature. Full adhesion is only achieved after this period.

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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