Product name:	**DACO-KSD-B** Self-adhesive, SBS modified bituminous vapour control layer
Product code:	12112
Product standard:	DIN EN 13970
Roll dimensions:	10.00 x 1.00 m
Protective coating: upper side bottom side	 Quartz sand Release film
Reinforcement:	Glass fleece and aluminium composite reinforcement
Product description:	DACO-KSD-B is a cold-applied, self-adhesive bituminous vapour control layer which is saturated and coated with high quality SBS modified bitumen. It has a glass fibre and aluminium composite reinforcement, separating release film on the underside and is finished on the top side with quartz sand.
Product use:	DACO-KSD-B is designed for use as a high performance vapour barrier, and is ideal for use within cold-applied roofing systems. It is typically used within self-adhesive specifications and can be applied to a wide range of substrates, including plywood, metal and concrete decks, subject to use of a suitable primer as required. Quartz sand on the top allows for a firm adhesion, e.g. with appropriate bitumen and PU-adhesive between the vapour barrier and the thermal insulation material. DACO-KSD-B is equipped with a safety seam for welding the seam overlapping.

Properties	Test method	Unit	Declared performance
Visible defects	DIN EN 1850-1	-	no visible defects
Length	DIN EN 1848-1	m	≥ 10.00
Width	DIN EN 1848-1	m	≥ 1.00
Straightness	DIN EN 1848-1	mm/10 m	< 20
Mass per unit area	DIN EN 1849-1	kg/m²	unverified result
Thickness	DIN EN 1849-1	mm	2.50 (±7.5%)
Water tightness	DIN EN 1928 Method B	-	passed at 100 kPa
Tensile properties: maximum tensile force, L / T	DIN EN 12311-1	N	≥ 1000 / 1000

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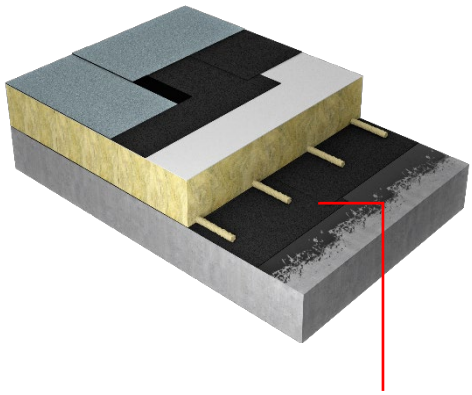
Properties	Test method	Unit	Declared performance
Tensile properties: elongation, L / T	DIN EN 12311-1	%	≥ 2 / 2
Flow resistance at elevated temperatures	DIN EN 1110	°C	≥ +100
Flexibility at low temperatures	DIN EN 1109	°C	≤ - 25
Water vapour transmission properties	DIN EN 1931	m	Sd ≥ 1.500
Reaction to fire	DIN EN 11925-2	-	Class E according to DIN EN 13501-1
Peel strength at the joints	DIN EN 12316-1	-	unverifiable result
Joint strength: shear resistance , L/T	DIN EN 12317-1	-	unverifiable result
Resistance to impact	DIN EN 12691	-	unverifiable result
Resistance to static loading	DIN EN 12730	-	unverifiable result
Dimensional stability	DIN EN 1107-1	-	unverifiable result
Artificial aging	DIN EN 1296	-	unverifiable result
Peel strength at the joints	DIN EN 12316-1	-	unverifiable result
Joint strength: shear resistance , L/T	DIN EN 12317-1	-	unverifiable result

Features & benefits:

- Flame free, self-adhesive application (welding of joint overlaps required)
- The possibility of walking over the material
- Excellent low temperature flexibility at -25°C
- Aluminium reinforced
- SBS modified bitumen
- Firm adhesion



DACO-KSD-B

Application overview:

DACO-KSD-B should be installed in accordance with manufacturer recommendations and all relevant national standards and codes of practice. Roofing contractors should also be fully conversant with the requirements.

When applying DACO-KSD-B on timber casings or planking the sheet has to be loosely fitted and mechanically fixed (hidden). The amount and position of the fixing material (e.g. galvanised roofing nails) depends on the requirements specified in the regulations.

The width of the joint overlaps has to be at least 8 - 10 cm. In order to adhere the joint overlaps the separating foil on the bottom side has to be removed in the area of the longitudinal seam or folded in. If a half or a third of distance between rows of fixing material is necessary in the corner or border areas of the roof surface, the fixing rows have to be covered with an off cut of DACO-KSD-B, which has to be at least 10 cm wide.

To lay DACO-KSD-B on a steel deck the separating foil on the bottom side has to be removed complete and the sheet has to be adhered with a joint overlap of at least 8 - 10 cm. The overlap of the longitudinal seam has to rest on the top chord of the steel deck. To obtain air tightness in the area of the cross-seams on profiled steel-sheets it is required to take measures according to DIN 18531-1 pt. 7.5 (e.g. plane underlay, metal strip, etc.).

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For full surface adhesion of DACO-KSD-B on concrete-ceiling or mineral building material in the joints or edges (e.g. concrete, plaster etc.) as well as on dusty, oily and greasy surfaces, the substrate must be checked for its suitability by means of a wipe and scratch test. It must be dry, frost-free, even, solid, load-bearing and free of impurities and other separating substances (e.g. dirt, formwork oil, grease, dust, etc.). Loose parts, sharp-edged unevenness and defects must be removed or repaired. The substrate must be primed with a suitable primer. The adhesive bond must be checked. In case of colder temperatures and insufficient adhesion, the cold self-adhesive bitumen roofing compound must be thermally activated.

Irrespective of the sub construction all joint overlaps have to generally be torched and unrolled with a draw roll.

Regardless of the surface a makeshift "emergency sealing" can be achieved in the area of the joint and seam overlap by means of (hot gas) welding. Further layers on the roof should therefore be added layer by layer.

When using DACO-KSD-B as part of a temporary, provisional or emergency roof it is important to have a minimum slope of 2 %. Furthermore the roof surface needs to be checked regularly. The DACO-KSD-B must be checked regularly before continuing the waterproofing work or during the construction phase and revised if necessary in case of damage. The stress criteria must be observed.

Chemical resistance:

DACO-KSD-B is water-resistant and is resistant to watery solutions of salt, diluted non-oxidising acids and bases. Aliphatic and aromatic hydrocarbons, as well as chlorine hydrocarbons, oils and greases may loosen the product and should therefore be avoided.

Storage:

Store in a cool, dry place and protect from direct sunlight. The product should be installed within 3 months of delivery, otherwise the surface must be primed with a suitable primer. In the cold season, the membrane rolls should be stored at pre-temperature prior to processing and only taken from the temperature-controlled storage directly to the installation site and installed shortly before processing.

Health & safety:

Health and Safety should be observed at all times in accordance with HSE and industry guidance. Specific Risk Assessments and Method Statements should be produced by contractors where necessary to ensure Working at Heights, Fire Safety and Manual Handling rules are compliant with current law and regulations. Health and safety data sheets are available for all materials on request from GEORG BÖRNER Technical Service Department.

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