

KÖSTER KSK AW 15

Technical guideline / Article number **10.311**

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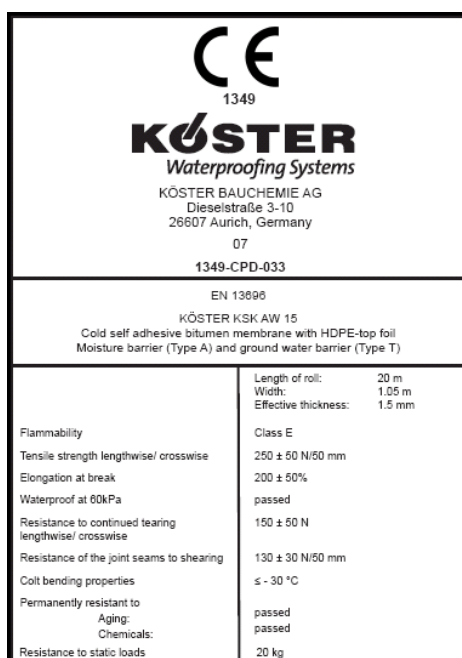
- Flammability test and test of the resistance to water pressure - MPA, Hannover
- Perforation test and tensile test - MPA, Hannover

Cold self-adhesive bitumen membrane with HDPE-top foil (moisture barrier type A, ground water barrier type T)

Features

KÖSTER KSK AW 15 consists of a highly tear resistant, 2-layer cross-laminated, polyethylene backing with a flexible bitumen / rubber sealing mass. It is cold applied and therefore no hot air or propane gas welding is required. The membrane is highly flexible, immediately waterproof, resistant to driving rain and crack bridging. KÖSTER KSK AW 15 can also be applied to cold substrates allowing waterproofing work to be carried out even at temperatures below 0°C.

Resistant to static loads DIN EN 12730 procedure B	> 20 kg
Resistance against artificial aging according to DIN EN 1296 and 1928, procedure. B (test pressure 60 kPa)	passed
Resistance against chemicals according to DIN EN 1847 and 1928 procedure B (Test pressure 60 kPa)	
- 10 % NaCl	passed
- Lime milk	passed
- 6 % Sulfuric acid	passed
Resistance to water vapour diffusion μ	< 130,000
Resistance to continued tearing lengthwise / crosswise according to DIN EN 12310-1	150 N \pm 50 N
Cold bending properties according to DIN EN 1109	\leq - 30°C
Resistance of the joint seams to shearing according to DIN EN 12317-1	130 \pm 30 N / 50 mm



Field of application

KÖSTER KSK AW 15 is ideal for waterproofing horizontal and vertical surfaces of structures and/or structural members in accordance with DIN 18195. It can be used to seal basement walls, underground parking lots, retaining walls, garage roofs, balconies, terraces etc. By enclosing a structure, e. g. a basement, from all sides and the bottom, a closed tank is built. The material can be used inside and outside and can be applied to all substrates. The material is suited as a barrier against rising damp and also as a barrier under screed against water vapour rising from the ground.

Substrate preparation

The substrate has to be clean, sound, even and as dry as possible or slightly damp, ice-free, without edges, ridges, nests or voids. Joints must be closed flush. Substrates containing a lot of moisture, visible as a moisture film and/or as a strong dark colouration of the surface, have to be treated at least 2 days prior to application of the membrane with KÖSTER NB 1 Grey against moisture penetrating from the backside of the substrate (consumption: approx.: 2 kg / m²). Voids must be closed beforehand e. g. with KÖSTER Repair Mortar. Mineral substrates at temperatures above +5°C have to be primed with undiluted KÖSTER KBE Liquid Film, well covering on the whole surface on which the membrane will be applied to (Consumption: 400 – 500 g

Technical data

Thickness according to DIN EN 1849-12	1,5 mm
Length according to DIN EN 1848-12	20 m
Width according to DIN EN 1848-21	1.05 m
Straightness according to DIN EN 1848-1	\leq 20 mm / 10 m
Flammability according to DIN EN 13501-1	Class E
Tensile strength according to DIN EN 12311-1	250 \pm 50 N / 50 mm
Elongation at break according to DIN EN 12311-1	200 \pm 50 %
Waterproof 60 kPa according to DIN EN 1928	passed

/ m²). In case of temperatures of below +5°C, the surface must be primed with KÖSTER KSK Primer SP (Consumption: approx. 250 g / m²).

At the transition from the vertical to the horizontal waterproofing and on foundation protrusions, a fillet with a leg length of 4 – 6 cm made of KÖSTER Repair Mortar has to be applied and allowed to cure fully prior to application of the primer (min. curing time 24 hours). Alternatively, the fillet can be created using KÖSTER Triangular Ribbon. In this case, the fillet area is primed with KÖSTER KBE Liquid Film and after an airing time of approx. 45 minutes, the KÖSTER Triangular Ribbon is stuck into place.

Application

1. The applied primer must have dried fully. The adhesion is sufficient if the membrane can only be removed from the substrate by use of force. A preliminary test is recommended. Do not apply the membrane when condensate is forming on the surface of the primer e. g. in the morning hours.
2. Cutting the membrane to size is facilitated by placing a piece of wood or a metal straight edge on the membrane as a backbrace to cut against. The membrane is rolled out, cut to the desired size and rolled up again.
3. All interior and exterior corners are reinforced with pre-cut membrane pieces, about 30 cm wide. Remove the protective paper just before applying the membrane to the surface.
4. Waterproofing of the especially demanding points where internal and external corners intersect the wall floor junction is done using specially cut pieces of membrane; refer to the KÖSTER KSK application guideline for details.
5. Waterproof wall surfaces beginning from the base area (approx. 30 cm above ground level), proceeding downwards to the wall floor junction and on to the side of the foundation. Cut the membrane to the required length. Apply the membrane by removing the protective paper and pressing the membrane onto the substrate. Overlap the edge of the previously applied membrane by 10 cm. All overlapping areas of the membranes must be firmly pressed together using a roller. Remove the backing paper from the self-adhesive edge before applying the next membrane.
6. In order to avoid the infiltration of water behind the membrane, seal all ends of the waterproofing layers, e. g. the ends of the membranes on the side of the foundation, the ends in the upper base area as well as around pipe penetrations and other junctions and endings. In case of ambient temperatures of above

+5°C, use undiluted KÖSTER KBE Liquid Film. In case of ambient temperatures below +5°C, use KÖSTER BS 1 Bitumen Paste.

7. Mechanically fix the upper ends of the membranes with large headed zinc coated nails (5 pieces / m) or with a fixing profile. In case of rough substrates and in case of e. g. porous concrete, a second coat must be applied after the first coat has fully dried.
8. Around pipe penetrations, embed KÖSTER Glass Fibre Mesh into the sealant (KÖSTER KBE Liquid Film or KÖSTER BS 1 Bitumen Paste)
9. Protect the KÖSTER KSK SY 15 with KÖSTER Protection and Drainage Sheet 3-400 from damages due to backfilling. The construction pits for vertically waterproofed areas, to which KÖSTER KSK SY 15 was applied, must be backfilled immediately after full cure of the KÖSTER KBE Liquid Film. Horizontal areas must be protected from sunlight and they must be covered and pressed on within two weeks after their application.

Cleaning of tools

Clean sticky and dirty cutting tools with KÖSTER Bitumen Remover.

Packaging

21 m² rolls (width: 1.05 m; length 20.00 m)

Storage

Rolls must not be exposed to direct sunlight; they should be protected from extreme heat and extreme cold; store them standing upright; protect them from pressure and moisture.

Technical guidelines cited

KÖSTER BS 1 Bitumen Paste	Art. No.	1.10
KÖSTER KBE Liquid Film	Art. No.	1.13
KÖSTER NB 1 Grey	Art. No.	3.021
KÖSTER Repair Mortar	Art. No.	5.030
KÖSTER KSK Primer SP	Art. No.	7.30
KÖSTER Bitumen Remover	Art. No.	9.03
KÖSTER Triangular Ribbon	Art. No.	10.39
KÖSTER Protection and Drainage Sheet 3-400	Art. No.	11.40

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction site and for the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which exceed the specifications contained in this technical guideline require written confirmation. The valid standards for testing and installation, technical guidelines, and acknowledged rules of technology have to be adhered to at all times. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective and successful application. This guideline has been technically revised; all previous versions are invalid.