

## KÖSTER KSK ALU 15

Technical guideline / Article Number **10.331**  
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### Cold self-adhesive synthetic / bitumen sealing membrane laminated on the top side with a reinforced aluminium foil

#### Features

KÖSTER KSK ALU 15 is cold self-adhesive and can therefore be applied without using hot air or propane gas welding. Due to its high ductility, it can also be easily applied to difficult details. The top side of the membrane is laminated with an aluminium foil; the membrane is a vapour barrier, waterproof, weather- and UV-resistant. The self-adhesive compound on the bottom side of the membrane is protected by a removable protective foil. It is not necessary to place a layer of gravel on top of the membrane after its application. The membrane is resistant to frost and de-icing-salts.

#### Technical data

Thickness	approx. 1.5 mm
Weight	approx. 2.0 kg / m <sup>2</sup>
Protective sheet	Aluminum /PET laminate
Application temperature	min. +12 °C to + 35 °C (non condensating humidity)
Softening temperature of the elastomer / bitumen self-adhesive compound	110 °C
Cold bending property (r = 15 mm, 3 sec)	- 10 °C
Breaking load lengthwise	approx. 35 N / 5 cm
Breaking load across	approx. 35 N / 5 cm
Elongation at break of the adhesive compound	approx. 1.200 %
Bonding (180 °pull-off)	36 N / cm
Resistance to water pressure	Waterproof to 4 bar for 24 hours
Colour of the surface	Aluminium coloured

#### Field of application

KÖSTER KSK ALU 15 is suited for waterproofing small weather-exposed areas such as roofs of garages, balconies or the like. KÖSTER KSK ALU 15 can be applied in new construction as well as in repair.

#### Substrate preparation

The substrate has to be clean, dry, level and without edges or voids. Loose particles, dirt, sand, dust as well as rests of separating agents (paint, oil etc.) have to be thoroughly removed. Damaged / broken out areas have to be closed level.

Apply a thin coat of KÖSTER KBE Liquid Film to the substrate for improved adhesion. The primer (Consumption: approx. 250 g/m<sup>2</sup>, in case of porous concrete 2 coats each with approx. 250 g/m<sup>2</sup>) must have completely dried. On polystyrene substrates, priming is not necessary. Apply the membrane on the same day.

Roof penetrations such as storm drains as well as bordering vertical areas should be primed up to a height of 20 cm. Vertical connections (e. g. on walls, chimneys or the like) have to be fixed using connection- or metal-hole-strips which have to be sealed from the topside using a suited joint sealing compound in order to avoid water penetrating behind the membrane.

#### Application

For cutting membranes, always use a sharp knife. To avoid getting the knife stuck, wet the blade repeatedly. Avoid cutting the material when it has been exposed to heat or direct sunlight. Remove the backing paper after cutting the membrane. Cutting membranes to length is facilitated by laying a piece of wood on top of the membrane along the course of the cut as a cutting support.

1. First cut the membrane to the desired length, then roll the pieces up again.
2. Unroll half of the pre-cut membrane in the place where it will be installed and position it exactly on the area which will be waterproofed. While firmly holding the rest of the roll in place, roll up the unrolled membrane again. Two rolls result which are approximately the same size.
3. The protective foil on the bottom side of the membrane is carefully cut crosswise and pulled off evenly to both sides. After the self-adhesive layer has been exposed, the first half of the membrane is unrolled beginning from the middle of the roll piece by piece; it is pressed on by hand and then pressed on using a roller. Then the second part of the membrane is applied in the same way. Enclosures of air and folds must be avoided. Since the next membrane has to be bonded to the substrate as well as to the already applied membrane, make sure when aligning the membrane that the membranes overlap min. 5 cm. This also applies to the ends of the membrane (in case of applying the membranes one after another).

4. After applying the membrane, the whole area, especially the seams, should be pressed on again with a roller.
5. In order to avoid water penetrating to the backside of the membrane, accurate sealing of the edges with KÖSTER KBE Liquid Film or with another suited permanently elastic joint sealant is necessary.
6. Roof penetrations have to be connected waterproof. Therefore, cut the membrane crosswise in the size of the penetration, pull the membrane over the penetration and connect it with a collar of the membrane which should be fixed in place using a steel collar.

On rising walls, apply the membrane up to a height of min. 15 cm and with a wall connection- or metal-hole-strip. Seal the top-side of the strip using a permanently elastic joint sealant (e. g. silicone).

#### **Cleaning of tools**

Clean sticky cutting tools with KÖSTER Bitumen Remover.

#### **Trading units**

9.6 m<sup>2</sup> rolls, width: 0.96 m, length: 10.00 m

#### **Storage**

Rolls must not be exposed to low temperatures or direct sunlight.  
Store rolls standing upright. Protect from pressure and moisture.

#### **Technical guidelines cited**

KÖSTER KBE Liquid Film	Art. No. 1.13
KÖSTER Bitumen Remover	Art. No. 9.03

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.