



## KÖSTER KSK ALU Strong

Technical Data Sheet R 817 105 AS

Issued: 2019-09-06

### Cold self adhesive rubber / bitumen sealing membrane laminated with a coarse textured aluminium foil, 1.7 mm x 1.05 m x 10 m, 10.5 m<sup>2</sup>

#### Features

KÖSTER KSK ALU Strong is cold applied and therefore no hot air or propane gas welding is required for application. Due to its high ductility it can easily be applied to difficult details. The top side of the membrane is laminated with a grey, UV resistant coarse textured aluminium foil. The membrane is a vapor barrier, waterproof, weather-, and UV resistant. A highly tear-resistant mesh embedded centrally in the membrane ensures excellent form stability. The self adhesive compound on the bottom side of the membrane is protected by a removable foil. It is not necessary to place a layer of gravel on top of the membrane after application. The membrane is resistant to frost and de-icing salts.

#### Technical Data

Thickness	approx. 1.7 mm
Weight	approx. 2.0 kg / m <sup>2</sup>
Application temperature	min. + 12 °C to + 35 °C (avoid application on condensation)
Elongation at break of the adhesive compound	approx. 1,200 %
Surface	Aluminium, coarse-grain-imprinted, 60
Color	Light grey, similar to RAL 7023
Additional data for the reinforcing mesh	
Breaking load warp direction	> 900 N / 5 cm
Breaking load fill direction	> 1100 N / 5 cm

#### Fields of Application

KÖSTER KSK ALU Strong is suitable for waterproofing weather exposed areas such as garage roofs, balconies, and the like. KÖSTER KSK ALU Strong can be applied in new construction as well as for repairs.

It is not suited for waterproofing above inhabited or respectively heated areas.

#### Substrate

The substrate has to be clean, dry, even, and without sharp corners, ridges, gaps, or voids. It can be mineral, polystyrene, or wooden. In case of basement walls made of masonry, the joints have to be closed flush. As a primer a thin coat of KÖSTER KBE Liquid Film is applied to the substrate (Consumption: approx. 250 – 500 g / m<sup>2</sup>). Alternatively, KÖSTER Primer BL (Consumption approx. 0,25 - 0,4 kg / m<sup>2</sup>), KÖSTER Bitumen Emulsion, KÖSTER Bitumen Primer (on old bituminous layers), or KÖSTER Polysil TG 500 can be used for priming. The priming layer must be allowed to dry completely. Apply the membrane on the same day.

In case of strongly absorbent substrates, (e. g. porous concrete), a second primer coat may be necessary.

At wall / floor, wall / wall junctions and on offset foundations, fillets with a leg length of 4 – 6 cm must be installed using a cement mortar such as KÖSTER Repair Mortar. It must be fully cured before the KÖSTER KSK ALU Strong membranes are installed, (min. waiting time: 24

hours).

Roof penetrations such as storm drains and stack vents as well as bordering vertical areas should be primed up to a height of 20 cm. Vertical connections such as walls, chimneys or the like have to be mechanically fixed using edge profiles 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

When cutting membranes always use a sharp knife. To avoid having the knife stick to the membrane 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 or straight edge on top of the membrane along the course of the cut as a guide and cutting support. Do not apply KÖSTER KSK ALU Strong at temperatures below + 12 °C.

1. Pre-cut KÖSTER KSK ALU Strong to the required length.
  2. Roll the membrane out onto the area exactly where it is intended to be affixed. Secure one end of the membrane and roll it back together.
  3. Remove the protective paper from the membrane while rolling it into place.
  4. All interior and exterior corners are reinforced by applying pre-cut membrane pieces approximately 30 cm wide. Remove the backing paper just before applying the membrane to the surface.
  5. For waterproofing especially demanding internal and external corners use specially cut pieces of membrane. Refer to the KÖSTER KSK application guidelines on the packaging for details.
  6. Waterproof wall surfaces beginning approx. 30 cm above ground level, proceeding downwards to the wall floor junction and on to the side of the foundation. Pre-cut the membrane to the required length. Apply the membrane by removing the protective paper and pressing the membrane onto the substrate. Overlap the membranes a minimum of 5 cm, national and local guidelines may vary.
- All overlapping areas of the membranes must be firmly pressed together using a KÖSTER Leister Hand Pressure Roller (40 mm). Remove the backing paper from the self-adhesive edge before applying the next membrane. At vertical terminations the membrane must be applied at least 15 cm vertically. This termination must then be mechanically fastened with a metal track or perforated strip, which is then sealed with a caulking such as silicone. During high temperatures and direct sunlight the membranes can achieve temperatures above + 70 °C. Do not traffic the membranes at high temperatures. Membranes applied to sloped areas should be mechanically fastened with flat headed nails under the overlap.

#### Cleaning

Clean cutting tools with KÖSTER Universal Cleaner.

#### Packaging

R 817 105 AS roll

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.

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### Storage

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

### Safety

Wear cut resistant gloves and eye protection when using sharp tools. Observe all governmental, state, and local safety regulations while processing the material.

### Related products

KÖSTER Leister Hand Pressure Roller 40 mm	Prod. code RT 998 001
KÖSTER KSK Primer BL	Prod. code W 120 015
KÖSTER KBE Liquid Film	Prod. code W 245
KÖSTER BS 1 Bitumen Paste	Prod. code W 501 005
KÖSTER Butyl Fix-Tape Fleece	Prod. code W 815 015 F
KÖSTER KSK ALU 15	Prod. code W 815 096 AL
KÖSTER KSK SY 15	Prod. code W 815 105
KÖSTER Roofing Nails	Prod. code W 981 001
KÖSTER Universal Cleaner	Prod. code X 910 010

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