

## KÖSTER Bikuplan® KSK ALU Strong

Technical guideline / Article Number **10.341**  
Issued: 01<sup>st</sup> of November 2005 Draft

- Industry classification "Bikuplan" registered at the German patent office, 3955 6699

### Cold self-adhesive synthetic / bitumen sealing membrane laminated on the top side with a coarse-grain-imprinted aluminium foil

#### Features

KÖSTER Bikuplan® KSK ALU Strong 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 a grey, UV-resistant coarse-grain-imprinted aluminium foil. The membrane is a vapour barrier, waterproof and weather-proof. A highly tear-resistant mesh, which is embedded in the middle of the membrane, ensures the high form stability.

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. 1.7 mm  |
| Weight  | approx. 2.0 kg / m <sup>2</sup>                       |
| Application temperature                                 | min. +12 °C to + 35 °C<br>(non condensating humidity) |
| Elongation at break of the adhesive compound            | approx. 1.200 %                                       |
| Surface   | Aluminum, coarse-grain-imprinted, 60 µ                |
| Colour of the surface                                   | Light grey, similar to RAL 7023                       |
| Additional data for the reinforcing mesh in the middle: |   |
| Breaking load warp direction                            | > 900 N / 5 cm  |
| Breaking load fill direction                            | > 1100 N / 5 cm                                       |

#### Field of application

KÖSTER Bikuplan® KSK ALU Strong is suited for waterproofing small weather-exposed areas such as roofs of garages, balconies or similar structures. KÖSTER Bikuplan® KSK ALU Strong can be applied in new construction as well as in repair.

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

#### 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 Foil 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. Apply the membrane on the same day.

Roof penetrations such as exhausts as well as bordering vertical areas should be primed up to a height of approx. 15 cm and be included into the waterproofing.

Vertical connections (e. g. on walls, chimneys or the like) have to be fixed using connection- or metal-hole-strips which in turn must 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 edge-areas is necessary.

6. Roof penetrations have to be "worked in" waterproof.

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**

Rolls à 10.5 m<sup>2</sup>, width: 1.05 m, length: 10.00 m

#### **Storage**

Rolls must not be exposed to low temperatures and 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 accurate and thereby effective and successful application of our products is not subject to our control. The guarantee can therefore only be applied to the quality of our products within the scope of our terms and conditions, not, however, for their effective and successful application. These guidelines replace all previous ones.