

KÖSTER Issued: 22nd of February 2002 **Techn. Leaflet /Product Code** Issued: 22nd of February 2002 **Bikuplan[®] KSK AW 15** SELF-ADHESIVE SYNTHETIC /BITUMEN SEALING MEMBRANE IN ACCORDANCE WITH DIN 18195, APPLICATION DOWN TO -5°C /23°F

DESCRIPTION

The Bikuplan[®] KSK AW consists of a highly tear resistant, crosslaminated polyethylene foil with a flexible bitumen /rubber sealing mass. It is cold applied and thus no hot air or propane gas welding is required. The sealing membrane is highly flexible, immediately waterproof and resistant to rain. It is crack bridging and bonds well to both cold and/or damp substrates.

The Bikuplan[®] KSK AW enables waterproofing work to be executed even at below zero temperatures (Celsius).

Both roll sides have been fitted with a special double-sided sticky overlapping edge (5 cm) that ensures quick, precise and safe seam sealing.

TECHNICAL DATA

Thickness	1.5 mm
Weight	app. 1.7 kg / m²
Resistant to temperatures	- 20°C /-4°F to + 30° C/86°F
Application temperatures	- 5° /23°F to + 30° /86°F
Crack bridging	> 5 mm
Bonding properties at 0°C /32°F	no cracks &
	does not flake off the substrate
Resistance against water pressu	
Resistance against water pressu Fire behaviour	
5	re (72 hours) 5 bar
Fire behaviour	re (72 hours) 5 bar Building materials class B 2 0.11 g / m² / 24 h

FIELD OF APPLICATION

BIKUPLAN[®] KSK AW is the ideal sealant for external walls in accordance with DIN 18195, underground car parks, retaining walls, garage roofs, balconies and terraces. It is a suitable material for the waterproofing of horizontal and vertical building units. Bikuplan[®] KSK AW can be used both indoors and outdoors.

It is a suitable waterproofing layer against rising damp and a suitable water vapour barrier when placed below screed.

PREPARATION OF SUBSTRATE

The substrate has to be clean, sound, even, without edges and voids as well as free of ice, grease, fuels, form oil and other contaminants that may affect the bonding adversely. Joints on masonry should be cleaned and filled using Köster Repair Mortar (or similar) thus creating an even smooth surface without interruptions. If Bikuplan[®] KSK AW is to be applied to mineral substrates they should be primed KSK Primer SP (Consumption app. 200 ml /m²) beforehand. The substrate should therefore be absorbent, dry or slightly damp. Coat substrates that are very damp, visible as moisture film and a strong dark colour on the surface, with KÖSTER NB Sealing Slurry I grey against water transmission from behind (consumption app. 2 kg /m²) at least 24 hours before applying KSK Bikuplan[®] AW.

Create a fillet made of KÖSTER Repair Mortar with a side length of 4 - 6 cm and allow it to cure prior to application of primer (min. curing time 24 hours). The fillet reduces stress between horizontal and vertical waterproofing layers and protruding foundation details.

APPLICATION

- 1. Allow primer to cure thoroughly before laying the membrane. The primer should be touch-dry. Test the primer bond strength to the substrate the following way: Attach a small strip of the sealing membrane to the priming layer, press it firmly to the substrate and tear it off again. If the strip removes more than 50 % of the priming layer it does not yet provide sufficient adhesion. Postpone membrane laying until satisfactory results are obtained. Do not lay the sealing membrane, where condensation water prevails, e.g. during the early morning hours!
- 2. Cutting of Bikuplan[®] KSK AW is done by using a piece of wood for backing. Calculate and cut several pieces at a time, roll them

The above mentioned information and instructions are given to the best of our knowledge and belief based on tests and our long experience in this field. A correct and successful application is not subject to our control. Therefore, a guaranty can only be given for the quality of our products within our normal business terms but not for a successful application. With this technical leaflet previous ones are no longer valid.

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up again and place them for immediate use, this will ensure a fast and continuous application with minimum down time. Wet down the cutting knife to reduce friction for best results.

- 3. Reinforce all internal and external corners with pre-cut membrane pieces, about 30 cm wide.
- 4.Seal protruding external corners (e.g. projecting foundation details) with the sealing membrane. Cut out a triangle and then a rectangle. Cut them for a perfect fit and place them on the corner, thus generating a double-waterproofing layer.
- 5.Now cut the membranes into sections of about 1 m length (easier handling when placing them). Bond them around the wall /floor junction up to the middle of the wall surface with 5 cm overlapping on both sides and 10-15 cm at the ends. Apply the membrane from down to top. Remove the backing paper along with membrane placement. Before applying the next membrane remove the separating foil on the pre-fabricated self-adhesive edge on the already laid membrane.
- 6. Seal wall surfaces from the pedestal to the lower waterproofing layer from top down with membranes pre-cut to the required length. Cut the membranes and leave enough spare material for overlapping the lower waterproofing by about 15 cm. Lay the membranes by removing the backing foil and pressing the membrane to the substrate, thus overlapping each other at the edges by 5 cm. Press all overlapping sectors of the membrane firmly with a roller, providing maximum contact. Remove the separating foil from the self-adhesive edge before laying the next lane.
- 7. To avoid backflow, cover all ends of the waterproofing layers, i.e. the ends of the membranes around the upper pedestal as well as around pipeways and other junctions and details with KÖSTER KBE Liquid Film undiluted. Fix the upper end of the waterproofing layer with large zinc coated fixing nails (5 pieces /m) or mechanically with a connecting profile. Cover rough surface and e.g. porous concrete with a second layer of Köster KBE Liquid Film after the first layer has cured. Embed KÖSTER Glass Fibre Mesh into the KÖSTER KBE Liquid Film around pipe ways, construction joints and other areas prone to cracking.
- Protect Bikuplan[®] KSK AW with polystyrene drainage boards (or similar) against backfill damages.

9. Fill vertical areas <u>immediately</u> after curing process with soil; cover horizontal areas within two weeks and press the soil on.

Backfill areas covered with KSK Bikuplan[®] AW <u>immediately</u> after curing process with soil, protect horizontal areas from sunlight and cover them within 2 weeks.

CLEANING OF TOOLS

Clean sticky and dirty cutting tools with KÖSTER Bitumen Remover.

PACKAGING

Rolls à 21 m² (width: 1.05 m; length 20.00 m)

STORAGE

Do not reduce temperature below normal and do not let the rolls heat up (e.g. by direct sunlight) too long. Store the rolls upright. Protect from pressure and moisture.

Reference was made to the following technical leaflets

KÖSTER KBE Liquid Film	1.13
KÖSTER NB- I grey	3.021
KÖSTER Repair Mortar	5.030
KSK Primer SP	7.30
KÖSTER Bitumen Remover	9.03

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