BUILDING TRUST

PRODUCT DATA SHEET

# SikaShield® AL-E DD

Elastomeric Bitumen vapour control layer with glass fleece inlay mop applied

## DESCRIPTION

SikaShield® AL-E DD (thickness 2.5 mm) is an elastomeric bitumen vapour control layer reinforced with a polyester-aluminium laminate and a glass fleece with longitudinal thread.
The top and bottom side is finely granulated with quartz sand.

## USES

Vapour control layer for flat roofs on concrete substrates for compact roofs

## FEATURES

- Elastic behaviour at low temperatures
- Safety against water inlate through fully bonded with the subsrate
- Vapour & radon barrier
- Chemically good compatible
- Suitable as a temporary seal (max. 6 months)

## CERTIFICATES AND TEST REPORTS

CE-Marking and Declaration of Performance to EN 13970 - Bitumen vapour control layers

## PRODUCT INFORMATION

| | | | |
|---|---|---|---|
| **Composition** | coating | elastomeric bitumen | |
| | reinforcement | glass fleece + polyester-aluminium-laminate | |
| **Packaging** | single rolls | | |
| **Appearance and colour** | top | fine granule | |
| | bottom | fine granule | |
| **Shelf life** | 24 months if stored properly | | |
| **Storage conditions** | Store vertical and protected from extreme external influence such as heat, cold, moisture etc. | | |
| **Visible defects** | free of visible defects | | (EN 1850-1) |
| **Length** | 10 m | | (EN 1848-1) |
| **Width** | 1 m | | (EN 1848-1) |
| **Thickness** | 2.5 mm | | (EN 1849-1) |
| **Straightness** | < 20 mm / 10 m | | (EN 1848-1) |
| **Mass per unit area** | 3 kg/m² [± 10%] | | (EN 1849-1) |

## TECHNICAL INFORMATION

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| **Tensile strength** | **maximum tensile force** | | (EN 12311-1) |
| | lengthwise | ≥ 500 N / 50 mm | |
| | crosswise | ≥ 300 N / 50 mm | |
| **Elongation** | **elongation at maximum tensile force** | | (EN 12311-1) |
| | lengthwise | ≥ 2 % | |
| | crosswise | ≥ 2 % | |
| **Tear strength** | **nail shank** | | (EN 12310-1) |
| | lengthwise | ≥ 100 N | |
| | crosswise | ≥ 100 N | |
| **Reaction to fire** | class E | | (EN 13501-1, EN ISO 11925-2) |
| **Water-vapour transmission rate** | $s_d$ = 1.500 m [± 10%] | | (EN 1931 - procedure A) |
| **Watertightness** | 60 kPa | | (EN 1928 - procedure B) |
| **Flow resistance** | +70 °C | | (EN 1110) |
| **Flexibility at low temperature** | -25 °C | | (EN 1109) |

## APPLICATION INFORMATION

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|---|---|
| **Ambient air temperature** | We recommend a minimum temperature of +5 °C during the application. |
| **Substrate temperature** | We recommend a minimum temperature of +5 °C during the application. |

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## ECOLOGY, HEALTH AND SAFETY

Fresh air ventilation must be ensured, when working in closed rooms.

### REGULATION (EC) NO 1907/2006 - REACH

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

## APPLICATION INSTRUCTIONS

Our installation instructions for bitumen waterproofing systems and our information under the heading “Regulations and guidelines” must be observed.
In general, the relevant regulations, standards, and rules must be observed.
The currently valid version of all these documents must be used.

FURTHER INFORMATION
The product is suitable as a temporary waterproofing solution for a maximum of 6 months. In principle, when using a temporary waterproofing solution, it is important to ensure that it is securely attached to the substrate and to carefully execute and check the overlap seam. During use as a temporary waterproofing solution, the membrane must be protected from direct mechanical and static loads, e.g., frequent foot traffic and/or loads, etc. After a prolonged period of inactivity, the vapor barrier layer must be checked to ensure it is functioning properly and, if necessary, repaired before further roofing work is continued.

Please note that a temporary waterproofing has lower performance characteristics than a properly dimensioned waterproofing.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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