

## PRODUCT DATA SHEET

# SikaShield® P55 PE RT 4 mm

Anti-root plastomeric bituminous membrane surfaced with PE foil and flexible at -15 °C

### PRODUCT DESCRIPTION

SikaShield® P55 PE RT 4 mm is an APP modified bituminous waterproofing membrane with a thickness of 4 mm. It contains an anti-root additive, which allows the membrane to be in direct contact with the soil. It is reinforced with a non-woven polyester fabric dimensionally stabilised with glass fibre and is flexible at -15 °C. The top surface is coated with a polyethylene foil, which ensures the bond of the overlying layer. The underside of the product has a burn-off film for easy torch-application.

### USES

The Product is used as a waterproofing membrane for:

- Flat and sloping roofs under protective layers or ballast
- Inverted roofs
- Roof gardens
- Roof garden with final waterproofing layer in contact with soil

Please note:

- The Product is not suitable for roofs permanently exposed to UV radiation.

### PRODUCT INFORMATION

|                            |   |  |             |
|----------------------------|---|--|-------------|
| <b>Chemical Base</b>       | Composition   | APP modified bitumen with anti-root additive                         |             |
|                            | Reinforcing material                                  | non-woven polyester fabric dimensionally stabilised with glass fibre |             |
| <b>Packaging</b>           | Roll width  | 1.0 m  | (EN 1848-1) |
|                            | Roll length   | 8.00 m ± 0.08 m  |             |
|                            | Refer to current price list for packaging variations. |  |             |
| <b>Appearance / Colour</b> | Top surface   | Polyethylene film  |             |
|                            | Bottom surface  | Polyethylene film  |             |
| <b>Shelf Life</b>          | 36 months from date of production                     |  |             |

### CHARACTERISTICS / ADVANTAGES

- Good resistance to root penetration
- Good resistance to humic acids and fertilizers
- Resistant to aggressive mediums in natural ground water and soil
- Good durability
- Fully bonded
- Easy to install by torching method
- Good mechanical properties (tensile, tear, shear)

### APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 13707:2004+A2:2009 Flexible sheets for waterproofing — Reinforced bitumen sheets for roof waterproofing — Definitions and characteristics
- BBA Certified (19/5716)

## Storage Conditions

The Product must be stored in original unopened and undamaged packaging in dry conditions and temperatures between +5 °C and +35 °C. Store in a vertical position. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage. Always refer to packaging.

|                            |                                      |                        |             |
|----------------------------|--------------------------------------|------------------------|-------------|
| <b>Effective Thickness</b> | <u>Effective thickness</u>           | <u>4.0 mm ± 0.2 mm</u> | (EN 1849-1) |
| <b>Weight</b>              | Approximately 4.25 kg/m <sup>2</sup> |                        |             |

## TECHNICAL INFORMATION

|  |                                     |                                  |              |
|--|-------------------------------------|----------------------------------|--------------|
| <b>Resistance to Tearing (nail shank)</b>  | <u>Longitudinal (MD)</u>            | <u>150 N ± 45 N</u>              | (EN 12310-1) |
|  | <u>Transversal (CMD)</u>            | <u>180 N ± 35 N</u>              |              |
| <b>Joint Shear Resistance</b>              | <u>Longitudinal</u>                 | <u>550 N/50 mm ± 110 N/50 mm</u> | (EN 12317-1) |
|  | <u>Transversal</u>                  | <u>300 N/50 mm ± 60 N/50 mm</u>  |              |
| <b>Reaction to Fire</b>                    | Class E                             |                                  | (EN 13501-1) |
| <b>Water Tightness</b>                     | <u>Method B: 24 hours at 60 kPa</u> | <u>Pass</u>                      | (EN 1928)    |
| <b>Flexibility at low temperature</b>      | ≤ -15 °C                            |                                  | (EN 1109)    |
| <b>Maximum tensile force</b>               | <u>Longitudinal (MD)</u>            | <u>650 N/50 mm ± 130 N/50 mm</u> | (EN 12311-1) |
|  | <u>Transversal (CMD)</u>            | <u>400 N/50 mm ± 80 N/50 mm</u>  |              |
| <b>Elongation at maximum tensile force</b> | <u>Longitudinal (MD)</u>            | <u>40 % ± 15 %</u>               | (EN 12311-1) |
|  | <u>Transversal (CMD)</u>            | <u>40 % ± 15 %</u>               |              |

## APPLICATION INFORMATION

|                                |                |               |
|--------------------------------|----------------|---------------|
| <b>Ambient Air Temperature</b> | <u>Minimum</u> | <u>+5 °C</u>  |
|                                | <u>Maximum</u> | <u>+40 °C</u> |
| <b>Relative Air Humidity</b>   | <u>Maximum</u> | <u>80 %</u>   |
| <b>Substrate Temperature</b>   | <u>Minimum</u> | <u>+5 °C</u>  |
|                                | <u>Maximum</u> | <u>+40 °C</u> |

## VALUE BASE

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

## ECOLOGY, HEALTH AND SAFETY

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

Please refer to the SikaShield® Installation Guide

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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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