

## PRODUCT DATA SHEET

# SikaProof®-612

### PRE-APPLIED FULLY BONDED WATERPROOFING MEMBRANE FOR BASEMENT AND FOUNDATIONS

#### DESCRIPTION

SikaProof®-612 is a fully bonded, pre-applied sheet membrane waterproofing system for basement and foundation structures. It is two-layer composite membrane combined with existing single sheet layer (polymer layer) and functional layer.

SikaProof®-612 has strong chemical and physical bonding properties to fresh concrete, so lateral water migration between membrane and the concrete is reduced to a minimum.

#### USES

SikaProof®-612 may only be used by experienced professionals.

Waterproofing, damp-proofing and concrete protection for basements against ground water ingress. Suitable for use on:

- Reinforced concrete base slabs
- Extension and reconstruction works

#### CHARACTERISTICS / ADVANTAGES

- Pre-applied: Fixed before placing reinforcement and casting concrete
- Strong bonding with concrete chemically and mechanically
- No lateral water underflow or migration between the concrete structure and the membrane system
- Optimized workability
- Optimized flexibility, tensile strength and multi-axial elongation
- Highly flexible with crack bridging abilities
- Dimensional stability
- Excellent structural movement properties

#### PRODUCT INFORMATION

|                           |   |
|---------------------------|---|
| <b>Chemical base</b>      | Polymer layer: Sheet layer<br>Functional layer: PSA / quartz sand layer   |
| <b>Packaging</b>          | SikaProof®-612 standard rolls are wrapped individually in a knitted plastic bag.<br>1.00 m (width) x roll length 20 m<br>2.00 m (width) x roll length 20 m  |
| <b>Shelf life</b>         | SikaProof®-612 have a shelf-life of 12 months from date of production.  |
| <b>Storage conditions</b> | Product must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between + 5°C and +35°C, Store in a horizontal position.<br>Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage. Do not stack |

rolls more than 5 layers.  
Always refer to packaging.

|                                       |  |
|---------------------------------------|--|
| <b>Appearance / Colour</b>            | Sheet layer: Smooth / White<br>Function layer: Rough               |
| <b>Effective Thickness</b>            | 1.2mm (-5% / +10%)<br>(Sheet layer 0.9 mm / function layer 0.3 mm) |
| <b>Tensile Strength</b>               | ≥16 MPa GB/T 23457   |
| <b>Elongation</b>                     | ≥ 400 % GB/T 23457   |
| <b>Adhesion in Peel</b>               | ≥ 1.5 N/mm no treatment (with concrete substrate) GB/T 23457       |
| <b>Tear Strength</b>                  | ≥ 400 N GB/T 23457   |
| <b>Foldability at Low Temperature</b> | Main Material -35°C no cracks GB/T 23457                           |
| <b>Watertightness</b>                 | 0.3 MPa 120min watertight GB/T 23457                               |

## SYSTEM INFORMATION

|                         |   |
|-------------------------|---|
| <b>System Structure</b> | The following system products must be used in pre-applied system: <ul style="list-style-type: none"><li>▪ SikaProof®-612 sheet membrane</li><li>▪ SikaProof® Tape 80 AP for detailing or optional for internal jointing</li></ul> |
|-------------------------|---|

## APPLICATION INFORMATION

|                              |                          |
|------------------------------|--------------------------|
| <b>Substrate Temperature</b> | +5 °C min. / +60 °C max. |
|------------------------------|--------------------------|

## BASIS OF PRODUCT DATA

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.

## IMPORTANT CONSIDERATION

- Installation work must only be carried out by Sika trained, approved or competent contractors experienced in this type of application  
Reference must also be made to the Sika Method Statement: SikaProof®-6xx Series for more detailed information
- Do not install SikaProof®-612 membrane during continuous or prolonged rain, snowfall or sandstorm.
  - The substrate application surface must be clean with no standing water
  - Additional Sika Joint Sealing Solutions (minimum SikaSwell®) must be used for connection around penetrations and for construction joints.
  - Concrete must be placed within 7 days after membrane installation
  - Proper concrete installation (workmanship and mix design) is the key for the fully bonding properties
  - Do not install SikaProof®-612 on structures where it will be permanently exposed to UV light
  - Substrate: In case that the substrate is not smooth use Geotextile 300-1000 g/m<sup>2</sup> to protect the SikaProof®-612 from sharp elements of the blinding concrete.

## ECOLOGY, HEALTH AND SAFETY

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

SikaProof®-612 membrane must be applied on a sufficiently stable, well compacted (blinding layer) substrate to avoid movement during the construction works. Substrate surface must be smooth, uniform and clean. Substrate can be damp, slightly wet or ponding water must be avoided.

### APPLICATION METHOD / TOOLS

Follow Sika Method Statement: SikaProof®-6xx Series

## LOCAL RESTRICTIONS

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

## 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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**Product Data Sheet**

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