

## PRODUCT DATA SHEET

## SikaProof®-612 C

Pre-applied fully bonded waterproofing membrane

## DESCRIPTION

SikaProof®-612 C 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 (HDPE polymer) and functional layer. SikaProof®-612 C creates a strong chemical and mechanical bond to concrete, which prevent any lateral water migration.

## USES

Non-exposed waterproofing application such as

- Foundations
- Basement slabs and walls

## 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
- White sheet material, easy to identify
- Excellent chemical resistance
- Excellent impact resistance performance
- Optimized workability, no need for protective layer
- Dimensional stability
- Double overlap with adhesive backing

## APPROVALS / STANDARDS

GB/T 23457-2017 <Pre-Applied Waterproofing Sheets> Type P

## PRODUCT INFORMATION

Composition	Polymer layer: White Functional layer: White sand with adhesive
Packaging	SikaProof®-612 C standard rolls are wrapped individually in a plastic bag. 1.00 m (width) × roll length 20 m 2.00 m (width) × roll length 20 m
Appearance / Colour	Sheet layer: Smooth / white Function layer: Rough
Shelf Life	12 months from date of production
Storage Conditions	Product must be stored in original unopened and undamaged packaging in dry conditions and temperatures between + 5 °C and +35 °C. 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.
Effective Thickness	1.2 mm (-5 % / +10 %) (GB/T 23457-2017) / (EN 1849-2)

## TECHNICAL INFORMATION

Resistance to Dynamic Puncture	≥ 350 N	(GB/T 23457-2017) / (ASTM E0154)
Tensile Strength	≥ 16 MPa	(GB/T 23457-2017) / (ASTM D412)
Joint Peel Resistance	≥ 0.8 N/mm	(GB/T 23457-2017) / (ASTM D1876)
Foldability at Low Temperature	Main material -35 °C, no crack No crack at -30 °C	(GB/T 23457-2017) (ASTM D1970)
Water Tightness	~0.3 MPa, 120 min, watertight	(GB/T 23457-2017)
Adhesion in Peel	≥ 1.5 N/mm no treatment (with concrete substrate)	(GB/T 23457-2017)
Resistance to lateral water migration	0.8 MPa / 35 mm, 4 h, no lateral water migration Pass, up to 7 bar (71 m)	(GB/T 23457-2017) (ASTM D5385, modified)
Flexibility at Low Temperature	Adhesive layer -25 °C no cracks	(GB/T 23457-2017)
Elongation at break	≥ 400 %	(GB/T 23457-2017) / (ASTM D412)

## APPLICATION INFORMATION

Substrate Temperature	+5 °C min. / +60 °C max.
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## SYSTEM INFORMATION

System Structure	The following system products must be used in pre-applied system: <ul style="list-style-type: none"><li>▪ SikaProof®-612 C membrane</li><li>▪ SikaProof® Sandwich Tape-80 AP / SikaProof® Tape-160 for detailing or optional for internal jointing or use hot-air welding.</li></ul>
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## 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.

## LIMITATIONS OF USE

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 C 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.
- Proper concrete installation (workmanship and mix design) is the key for the fully bonding properties.
- Do not install SikaProof®-612 C 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 C from sharp elements of the blinding concrete.

## ECOLOGY, HEALTH AND SAFETY

### 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

### SUBSTRATE QUALITY

SikaProof®-612 C 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

### APPLICATION

Membrane is loose laid on a horizontal or inclined substrate, and mechanical fixation is required on a vertical substrate.

**Overlap:** All overlapping edges and cross joints must be sealed with adhesive tape

**Detailing:** All details and connections should be processed.

**Joint:** Using Sika® Joint system to handle joints.

**Inspection and quality control:** Before concreting, a final inspection and acceptance should be carried out to ensure the effective and complete installation of SikaProof® membrane system, without any damage points, and the anti-sticking layer is clean and intact.

**Concreting:** Concrete must be placed within 21 days after membrane installation.

### 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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