

Product Data Sheet

Identification no: 020704999000000060
SikaBit® S-515

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Peel and stick, self-adhesive, bituminous sheet waterproofing membrane for below ground applications

Product Description

SikaBit® S-515 is a self-adhesive bituminous sheet waterproofing membrane, based on a SBS modified bitumen compound on a cross-laminated HDPE film.

Uses

SikaBit® S-515 is a cold and post-applied self-adhesive sheet waterproofing membrane. The system is applied on existing below ground concrete structures to provide damp-proofing and waterproofing:

- On horizontal slabs and protrusions
- On single and strip foundations or slabs
- On the outside of external walls
- On concrete roof decks

Characteristics / Advantages

- Cold-applied and self-adhesive (no heating or open flames required)
- Fully bonded sheets with self-sealing abilities
- Resistant to aggressive mediums in natural ground water and soil
- Provides Radon and Methane gas barrier
- Controlled layer thickness
- Easy, fast and secure application, without special equipment
- Temporarily UV-/weather resistant (during limited construction periods)

Tests

Approval / Standards

- Product Declaration EN 13969 A&T, CE Certificate
- Methane gas permeability, CSI S.p.A. Laboratori Bollate-IT, test report No. 0562/FPM/MATs/14, 26.06.2014

Product Data

Form

Appearance / Colours

Supplied as sheets in rolls, on one side a black HDPE carrier film and on the other the black bitumen compound adhesive protected with a white peel-release paper.

Packaging

1.00 x 20 m single roll packed in a cardboard box, 33 kg/roll

Storage

Storage Conditions / Shelf Life

SikaBit® S-515 membrane rolls have a shelf-life of 24 months from date of production if stored properly in unopened, undamaged, original packaging, in dry conditions and at temperatures between +5°C and +30°C. They must be protected from direct sunlight, rain, snow and ice, etc. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage.



Technical Data

Product declaration	EN 13969 (type A & T), mandatory for European countries		
Visible defects	Pass		EN 1850-1
Straightness	≤ 20 mm / 10 m		EN 1848-1
Mass per unit area	1.550 kg/m ²	(-/+ 5%)	EN 1849-2
Thickness	1.50	(-/+ 5%)	EN 1849-1
Watertightness	Pass (24h, 60kPa)		EN 1928 A
Water vapour diffusion	μ 90'000		EN 1931
Tensile strength	Longitudinal	≥ 215 N / 50 mm	EN 12311-1
	Transverse	≥ 220 N / 50 mm	(-/+ 5%)
Elongation	Longitudinal	≥ 324 %	EN 12311-1
	Transverse	≥ 238 %	(-/+ 5%)
Tear resistance	Longitudinal	≥ 125 N	EN 12310-1
	Transverse	≥ 65 N	(-/+ 5%)
Impact resistance	Method A	≥ 500 mm	EN 12691
	Method B	≥ 1000 mm	
Resistance to static load	Method A	≥ 10 kg	EN 12730
	Method B	≥ 15 kg	
Shear resistance of joints	Longitudinal	≥ 180 N / 50 mm	EN 12317-1
	Transverse	≥ 200 N / 50 mm	(-/+ 5%)
Peel resistance of joints	≥ 65 N / 50 mm, (-/+ 5%)		EN 12316-1
Flexibility at low temperature	-23 °C		EN 1109
Durability of watertightness against ageing	Pass		EN 1296, EN 1928 A
Durability of watertightness against chemicals	Pass		EN 1847, EN 1928 A
Reaction to fire	Class E		EN 13501-1
Durability after artificial ageing	80 °C		EN 1296, EN 1110
Flow resistance at elevated temperature	90 °C		EN 1110

Further Technical Data

Permeability to Methane Gas	< 5 cc/m ² x 24h x atm	CSI S.p.A. Laboratori Bollate Italy
Resistance to lateral water underflow	Pass up to 0.5 bar (5 m)	ASTM D5385 mod.

Application

Conditions / Limitations

Ambient temperature	+ 5 °C to + 40 °C
Service temperature	-40°C to +80°C
Substrate temperature	Minimum + 5 °C
Substrate moisture	Dry, ≤ 4% moisture content, no rising moisture
Dew Point	The substrate temperature must be at least 3°C above the dew point to reduce the risk of condensation and so limited adhesion.
Substrate conditions	Even, smooth, clean and free of impurities

Notes on Application / Limitations

- **SikaBit® S-515** sheets must only be installed by suitably trained and experienced operatives.
- The sheets must be protected as soon as possible after completion and always before backfilling, to prevent mechanical damage.
- **SikaBit® S-515** sheets are only temporarily and not permanently UV and weather resistant i.e. the sheets can only be exposed during limited construction periods, then they must be fully protected against such exposure. For more detailed information please refer to the current Method Statement for the **SikaBit® S-515** membrane system.
For example in:
 - Central Europe protect within 30 days
 - Southern Europe (e.g. hot / high UV areas) protect within 10 days
- For any connection of **SikaBit® S-515** with our Sika membrane systems please refer to the current detail drawings in the according Method Statement. (especially regarding their bitumen compatibility)
- **SikaBit® S-515** is not designed for use on structures under vehicular traffic.

Application Instructions

Substrate preparation, and priming

The concrete or cementitious substrate has to be clean, dry, even, sound and free from any bond inhibiting substances or contaminants that could impair adhesion (such as dust, oil, grease etc.). Unevenness and surface defects (such as blowholes, voids, honeycombing, cracks, protrusions, etc.) in the surface must be pretreated and filled prior to the application, in order to prevent any subsequent damage to the membrane sheets. For more detailed information please refer to the current Method Statement for the **SikaBit® S-515** membrane system.

A recommended primer has to be used for an optimal bond between **SikaBit® S-515** membrane sheets and the concrete substrate

- **SikaBit® P-05**, water-dispersed primer
- **Sarnafil® Primer 600**, solvent-dispersed primer

Installation method

The following installation method must be used:

1. Prepare the substrate according to meet the defined requirements
2. Apply the primer over the entire bonding surface:
i.e. using **SikaBit® P-05** or **Sarnafil® Primer 600**
3. Install the **SikaBit® S-515** peel & stick self-adhesive sheets as follows:
 - a) Prepare all connections, edges and details
 - b) Install the sheets in the horizontal & the vertical areas
 - c) Complete all necessary jointing & sealing
4. Provide protection for the **SikaBit® S-515** membrane against weathering and to prevent mechanical damage

For further more detailed information please refer to the current Method Statement for the **SikaBit® S-515** membrane system.

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.

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.

Ecology, Health and Safety Information

A Safety Data Sheet following EC- Regulation 1907/2006, Article 31 is not needed to bring the product to the market, to transport or to use it. The product does not damage the environment when used as specified.

REACH

Editorial note for National Data Sheet:

(This part highlighted in yellow must be deleted during preparation of the National Product Data Sheets)

The following information must be provided automatically and without prompting to industrial and professional users and distributors in any country in which REACH regulations are applicable (Article 33.1):

European Community Regulation on chemicals and their safe use (REACH: EC 1907/2006)

This product is an article within the meaning 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. Therefore, there are no registration requirements for substances in articles within the meaning of Article 7.1 of the Regulation.

Based on our current knowledge, this product does not contain SVHC (substances of very high concern) from the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w).

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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