

PRODUCT DATA SHEET

SikaBit® S-515 ID

SELF-ADHESIVE BITUMINOUS WATERPROOFING SHEET MEMBRANE

DESCRIPTION

SikaBit® S-515 ID is a self-adhesive bituminous waterproofing sheet membrane based on SBS modified bitumen compound, internally reinforced with a 50 gr/m² fiberglass fleece, on a cross-laminated HDPE film.

USES

SikaBit® S-515 ID is cold, post and self-adhesive sheet. Applied on existing below ground concrete structures against damp proofing and waterproofing against percolating water / no permanent water pressure:

- On horizontal slabs or protrusions
- On single or strip foundations or slabs
- On exterior walls
- On roof decks

CHARACTERISTICS / ADVANTAGES

- Cold-applied and self-adhesive (no heat or open flame require)
- Full bonded sheets with self-sealing ability
- Resistant to mediums in natural ground water and soil
- Radon and Methane gas barrier
- Controlled layer thickness
- Easy, fast and secure application, without special equipment
- Only temporarily UV-/weather resistant

PRODUCT INFORMATION

Packaging	1 x 20 m single roll packed in single cardboard box
Appearance / Colour	Rolled sheets, on one side a black HDPE carrier film and on the other side the black bitumen adhesive/compound protected with a black release paper.
Shelf Life	24 months from date of production if stored properly in unopen, undamaged, and original packaging.
Storage Conditions	Store 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 INFORMATION

Tensile Strength	Longitudinal	≥ 450 N / 50 mm	EN 12311-1
	Transverse	≥ 350 N / 50 mm (-/+ 5%)	
Elongation	Longitudinal	≥ 55 %	EN 12311-1
	Transverse	≥ 75% (-/+ 5%)	
Straightness	≤ 20 mm / 10 m		EN 1848-1
Watertightness	Pass (24 h, 60 kPa)		EN 1928 A
Visible Defects	Pass		EN 1850-1
Mass per unit area	1.60 kg/m ² (-/+ 5%)		EN 1849-2
Thickness	1.50 (-/+ 5%)		EN 1849-1
Water Vapour Properties	μ 90 000		EN 1931
Resistant to Tear	Longitudinal	≥ 250 N	EN 12310-1
	Transverse	≥ 230 N (-/+ 5%)	
Resistant to Impact	Method A	≥ 500 mm	EN 12691
	Method B	≥ 1000 mm	
Resistant to Static Load	Method A	≥ 10 kg	EN 12730
	Method B	≥ 15 kg	
Shear Resistant of Joints	Longitudinal	≥ 180 N / 50 mm	EN 12317-1
	Transverse	≥ 200 N / 50 mm (-/+ 5%)	
Peel Resistant of Joints	≥ 65 N / 50 mm, (-/+ 5%)		EN 12316-1
Reaction to Fire	Class F		EN 13501-1
Durability after artificial Ageing, flow resistance at Elevated temperature	80 °C		EN 1296, EN 1110
Flow resistance at elevated Temperature	90 °C		EN 1110

APPLICATION INFORMATION

Ambient Air 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 Condition	Even, smooth, clean and free of impurities

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRETREATMENT

The concrete or cementitious substrate have to be dry, even, sound, clean and free of any impurities. Unevenness and surface defects (such as blowholes, voids, honeycombing, cracks, protrusions, etc.) in the surface have to be treated prior the application to prevent any damages of the sheets. For further more detailed informations please refer to the current Method Statement of SikaBit® S.

In any case one of the recommended primers have to be used for an optimal bond between SikaBit® S-515 ID sheet and the concrete substrate.

Recommended primers:

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

APPLICATION METHOD / TOOLS

The following installation method shall be applied:

1. Prepare the substrate according the requirements
2. Apply the primer on the entire bonding surface: SikaBit® P-05 or Sarnafil® Primer 600
3. Install the SikaBit® S-515 ID peel&stick self-adhesive sheet:
 - a. Prepare all connections, edges and details
 - b. Install the sheets in the horizontal & vertical area
 - c. Jointing & sealing
4. Protect the SikaBit® S-515 ID sheets from weathering and damages

For further more detailed information please refer to the current Method Statement of SikaBit® S.

LIMITATIONS

- SikaBit® S-515 ID sheets must only be installed by skilled contractors.
- A The sheets have to be protected directly after completion at least before the backfilling, against mechanical damage.
- SikaBit® S-515 ID are not permanently UV and weather resistance. The sheets have to be protected against such exposure. For more detailed informations please refer to the current Method Statement of SikaBit® S.
 - For example in Central Europe at least after 30 days
 - And in Southern Europe (e.g. hot climate areas) within 10 days
- SikaBit® S-515 ID cannot be exposed to permanent hydraulic pressure (water, structures, vehicle traffic).

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PRODUCT DATA SHEET
SikaBit® S-515 ID
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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.

LOCAL RESTRICTIONS

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

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related 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.