

PRODUCT DATA SHEET

Sika BlackSeal® SB

SPRAY APPLIED POLYMER MODIFIED WATERPROOFING MEMBRANE

(ONLY TO BE APPLIED BY A SIKA APPROVED CONTRACTOR)



PRODUCT DESCRIPTION

Sika BlackSeal SB is a two-part polymer modified bitumen emulsion. The product is spray applied in one coat by Sika Approved Applicators, for quick and easy application.

USES

Sika BlackSeal SB is a high performance waterproofing membrane designed to be applied to a wide range of concrete and masonry structures, such as:

- Basements
- Retaining walls
- Roofs
- Balconies
- Foundations
- Tunnels
- Water retaining structures
- Treatment plants.

CHARACTERISTICS / ADVANTAGES

- BRANZ appraised for use as a damp-proof membrane under basement retaining walls, floors and foundations. (Appraisal No. 585 [2007])
- Fast application rate
- Totally seamless waterproofing
- Easily applied to intricate details
- Instantly waterproof
- High bond strength and flexibility
- Approved for use with potable water
- Non toxic and odourless.

TESTS

APPROVAL / STANDARDS

BRANZ appraised for use as a damp-proof membrane under basement retaining walls, floors and foundations. (Appraisal No. 585 [2007])
Australian Water Quality Centre, Test Report 4007/92.151A – Report on testing to AS/NZS 4020:2002, Testing of Product for use in Contact with Drinking Water. ASTM D 5385-93, Standard Test method for hydrostatic Pressure resistance of waterproofing membranes. Able to resist hydrostatic pressure up to 70psi or 50 metres of head pressure.

PRODUCT DATA

FORM

2-part polymer modified bitumen emulsion

COLOUR

Part A (Base) = Black; Part B (Catalyst) = Clear; Applied = Black

PACKAGING

Part A (Base) is supplied in 200 litre drums

Part B (Catalyst) is supplied in 20 litre drums

STORAGE

STORAGE CONDITIONS / SHELF-LIFE

Twelve (12) months when stored in unopened original containers in cool dry conditions between 5°C and 50°C. **Protect from frost and exposure to direct sunlight.**

TECHNICAL DATA

MOISTURE VAPOUR PERMEABILITY

140 MNS/g (ASTM E 96 - 92)

SPECIFIC GRAVITY

1.02kg/litre

VOLUME SOLIDS

Approx. 60%

FREEZING POINT

0°C

APPLICATION TEMPERATURE

5°C to 50°C (ambient and substrate)

COVERAGE RATE

Spray applied in a single coat application to give a minimum dry film thickness of 2.0mm. Depending upon the porosity of the substrate a typical average rate of coverage is approximately 0.20m² per litre.

DRYING TIME

Sets instantly. Allow to cure for 48 hours before installing protection boards.

System Information

APPLICATION DETAILS

SPECIFICATION

All work is to be carried out in accordance with Sika (NZ) Ltd's comprehensive specifications and details. These specification requirements are summarized below.

SURFACE PREPARATION

- All concrete and masonry surfaces must be clean and free from any loosely adhering particles. Contaminants such as dust, dirt, oil, grease, mould release agents and curing membranes must be removed from the substrate
 - The Applicator shall ensure that adequate excavation space is available to achieve the correct spray distances
 - Sika BlackSeal SB can be applied to damp concrete, however, concrete must be at least 48 hours old and must be free from standing water. Masonry surfaces shall be checked to ensure that the blockwork is not saturated and that good adhesion is achieved
 - All damage, holes and cracks must be repaired with the appropriate Sika MonoTop repair system.
 - Masonry surfaces shall be 'bagged' with Sika MonoTop 723 N or other appropriate cement-based mortar, as shall concrete surfaces with
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blow holes and minor imperfections

- Mortar joints must be finished flush with the surface. If mortar joints have been pointed apply Sika MonoTop 723 N levelling mortar or other appropriate cement-based mortar to joints to make flush with surface.

APPLICATION INSTRUCTIONS

MIXING

In order to reincorporate any settlement which may have occurred, Part A (Base) must be stirred fully before commencement of spraying.

APPLICATION METHOD

- Sika BlackSeal SB is to be applied using specialist spray equipment by an applicator approved and trained by Sika (NZ) Limited
- The spray gun shall be kept at a 90° angle to the surface being sprayed
- Sika BlackSeal SB is applied to the prepared substrate in a single coat using wet on wet passes. A minimum wet film thickness of 3.5mm will be needed to ensure the required minimum dry film thickness of 2.0mm is achieved. (Note that, to achieve the required minimum dry film thickness, a wet film thickness greater than 3.5mm may be required due to surface porosity)
- When applied to vertical or inclined surfaces, Sika BlackSeal SB shall be sprayed from the lowest point to the highest point
- Immediately after the Sika BlackSeal SB application apply Sika BlackSeal Protection Fabric directly onto the Sika BlackSeal SB Membrane, ensuring that there are no gaps in the Sika BlackSeal Protection Fabric. The Sika BlackSeal Protection Fabric will adhere to the Sika BlackSeal SB membrane and does not need to be mechanically fixed
- It is important to protect any areas not being treated from overspray
- 48 hours after application, and prior to backfill being placed against the Sika BlackSeal SB, protect the membrane with minimum 25mm thick polystyrene (EPS Class H) or 6mm Hardiflex.
- Where Sika BlackSeal SB has been applied to concrete underblinding (beneath proposed floor slabs) it should be protected with Sika BlackSeal Protection Fabric overlain with a 25mm thick concrete screed.

CLEANING OF TOOLS

The pump and spray tips need to be cleaned thoroughly with kerosene after each use. Ensure that Sika BlackSeal SB Part A (Base) is completely flushed from the pump before the pump is switched off. Although spray hoses may be left full of material overnight it is recommended that they be flushed out with kerosene.

IMPORTANT NOTES

- Partly used drums of material need to be resealed to prevent skinning of the product
- Any adjacent areas that have been accidentally oversprayed will be permanently stained
- Sika BlackSeal SB is not resistant to U.V. and, if not backfilled against, should always be protected with a suitable protective paint system
- At internal and external corners apply an initial coat of Sika BlackSeal SB, reinforce the corner with 200mm wide Deckweb Mesh and spray a second coat of Sika BlackSeal SB, to achieve a total dry film thickness of 6mm
- If the storage temperature of any of the Part A (Base) falls below 5°C, then that product shall not be used and shall be disposed of.

- If groundwater pumps have been used to control the level of the water table, the pumps must remain in operation until the Sika BlackSeal SB has fully cured.

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.

HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations.

FOR MORE SIKA BLACKSEAL® SB INFORMATION:



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