

PRODUCT DATA SHEET

Sika BlackSeal® Elastic

LIQUID APPLIED FLEXIBLE BITUMEN DAMP-PROOFING MEMBRANE FOR APPLICATION BEHIND MASONRY AND CONCRETE WALLS BELOW GROUND



DESCRIPTION

Sika BlackSeal® Elastic is a water-based, flexible, bitumen emulsion containing polymers and has been formulated to prevent water vapour transmission through the wall or structure.

USES

Sika BlackSeal® Elastic has been formulated for use as:

- Damp-proofing membrane behind retaining walls.
- Damp-proofing membrane for underground structures.
- Masonry block walls that comply with NZS 4229 and NZS 4210
- Precast and Insitu walls, subject to specific design and comply with NZS 3101

CHARACTERISTICS / ADVANTAGES

Complies with NZ Building code clauses:

- B2 - Durability
- E2 - External Moisture
- F2 - Hazardous Building Materials

Advantages:

- Excellent moisture vapour flow resistance
- Excellent adhesion to masonry and concrete
- Water based free from solvents
- Easy to apply with brush or roller
- Easy clean up with water
- Fast cure. Can re-coat after 4 hours, weather dependant
- Can be applied to green concrete
- Easily repaired if damaged prior to back filling
- Resistant to ground salts
- Sika provides application training and registration for Licenced Building Practitioners online. Go to learnhow.sika.co.nz

APPROVALS / STANDARDS

- BRANZ Appraised "Sika Blackseal Elastic Damp Proof Membrane" Appraisal No.770 [2023]
- Meets the requirements of the New Zealand Building Code (NZBC) when applied by a Licenced Building Practitioner (LBP) who has completed the online training and registered with Sika NZ Ltd. Refer to the BRANZ Appraisal for full details.
- Approved by Auckland Council in 2012 for NZ Building Code compliance : B2,E2,F2.
- BRANZ tested - Mean Vapour Flow Resistance of not less than 90 MNs/g.

PRODUCT INFORMATION

Packaging	4 litre and 20 litre containers
Shelf Life	Shelf life is twelve (12) months when stored as stated under "Storage".
Storage Conditions	Store in original containers in a dry place below 35°C and away from frost.
Colour	Blue/Grey when wet. Black when dry.
Density	1.03 kg/litre
Solid content by weight	60%
Elongation at Break	>1950%
Tensile Adhesion Strength	250 kN/m ²
Permeability to Water Vapour	340 MN s/g

APPLICATION INFORMATION

Consumption	Consumption ▪ Primer Coat: 1 Part Sika Blackseal Elastic : 1 Part fresh clean potable water. Applied at 4 m² / Litre. ▪ Top Coat: 2 undiluted topcoats at 2 m² / Litre These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for specific substrate conditions and proposed application equipment.
Waiting Time / Overcoating	Touch dry in 1-2 hours. Recoat time in 4 hours or longer depending on temperature. Must be fully dry before re-coating and backfilling..

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

- Sika BlackSeal® Elastic is not UV resistant and must be protected from UV exposure.
- Do not overcoat with paints. Staining, cracking and delamination may occur.
- Do not use for sealing inside water tanks, reservoirs etc.
- Can only be used on the exterior (ground water) face of the wall.
- All sealants (Excluding Sika Blackseal-1) must be protected by means of a barrier tape (Sika Sealtape B) before the application of Sika Blackseal Elastic.
- The drying / curing process is temperature and humidity dependant. Do not over coat or backfill until completely dry.
- Avoid application during strong sunlight or high winds exposure.
- Protect freshly applied material from rain until completely dry.
- If the product is connecting to an under footing / floor DPM then the connection is critical and must be thorough and watertight.
- Protect the finished system from damage and UV and backfill immediately after completion.

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.

APPLICATION INSTRUCTIONS

To meet the requirements of the NZ Building Code and for compliance with the BRANZ Appraisal, Sika Blackseal Elastic must be applied by a Licenced Building Practitioner (LBP) who has been trained and registered by Sika NZ Ltd.
LBP's can go to the Sika Website for training and registration.

SUBSTRATE QUALITY / PRE-TREATMENT

- Repair and reprofile the masonry / concrete substrate, if necessary, to make smooth and uniform. Any surface irregularities must be ground back and filled. Use appropriate cementitious mortars and fairing compounds from the Sika Monotop range or repair materials. Concrete walls require an F4 finish. Masonry mortar joints must be flush pointed and "tight" without any voids or gaps.
- All external corners must be rounded to a 10mm radius.
- The substrate must be thoroughly clean. Loose material, surface contamination, dust, dirt, coatings and any other material which can reduce adhesion must be removed.
- All internal corners must be filled with a 10mm covering of Sika Blackseal-1 joint sealant and allowed to dry.
- Any horizontal surfaces such as a footing "toe" must be reprofiled with Sika Monotop mortar to create a minimum 1.5 degree slope away from the wall.
- Pipe penetrations through the wall are not recommended, but if unavoidable must have a uniform 10mm gap (maximum) around the circumference which is filled with Sika Blackseal-1 joint sealant and allowed to dry. The membrane must be painted 75mm (minimum) out onto the pipe during the application process.
- The ground termination contour line must be defined before application and clearly marked onto the wall. A 300mm wide coating of Sikalastic-152 must be applied. The Sika Blackseal Elastic when applied will finish 150mm onto the Sikalastic-152 at ground level.
- Any control / movement joints in the wall must be prepared and filled with Sikaflex Pro-3 Purform or Sikaflex AT Facade and then covered to ground level with a barrier tape of Sika Sealtape B, to avoid contamination when the Sika Blackseal Elastic is applied.
- Any footing / slab DPM must be turned up and adhered to the vertical face of the footing. A strip of Sika Sealtape B must then be adhered to the DPM. This will be overcoated with the Sika Blackseal Elastic to provide continuity between the two discrete materials. Cleanliness, dryness and attention to detail is critical at this junction to ensure the connection will be watertight.

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APPLICATION

Mix 1-part clean fresh water to 1-part Sika Blackseal Elastic. Add water slowly and mix thoroughly.

Apply the primer uniformly to the clean, dry substrate using a good quality soft bristle brush, or long nap roller. Allow to dry.

Apply two undiluted coats of Sika Blackseal Elastic. The first coat should be applied and laid off in a horizontal direction and once cured, the second coat should be applied and laid off in a vertical direction. Ensure the first coat is fully dry before proceeding with the second coat.

As soon as the membrane is fully dried cover the entire surface with a layer of Sika Blackseal Protection sheet. This can be held to the wall with dabs of Sika Blackseal-1 sealant. Allow a minimum one row overlap at each joint interface to provide continuity and stop backfill from getting behind the protection.

All drainage requirements must be undertaken in compliance with the building designer / engineer's instructions.

Commence backfilling and compacting in accordance with designer / engineers instructions and avoid damaging or moving the protection sheet during the process.

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.

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. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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