

BUILDING PRODUCT INFORMATION SHEET

Sika BlackSeal® Elastic

BRANZ APPRAISED LIQUID APPLIED FLEXIBLE BITUMEN DAMP-PROOF MEMBRANE

DESCRIPTION

Sika BlackSeal® Elastic is a BRANZ appraised polymer modified water based bitumen emulsion.

USES

Sika BlackSeal® Elastic has been formulated for use as a water-proof membrane behind retaining walls and as a damp-proof membrane for underground structures. Sika BlackSeal® Elastic can be applied to concrete, concrete block and brick-work, wood and metal.

FEATURES

- BRANZ Appraised certificate No.770 [2018]
- Meets Clause B2 Durability, not less than 50 years, E2 External Moisture and F2 Hazardous Building Materials
- Appraised as an Alternative Solution in terms of the New Zealand Building Code
- Improved moisture vapour flow resistance of >300 MNs/g.
- Fast cure, recoat in 4 hours
- Complies with AS/NZS 4020, tested for use in contact with drinking water (potable water)*
- Can be mixed with sand and cement to create waterproof screeds and mortars

- Water based, free from solvents
- Simple to apply by brush or roller
- Excellent adhesion to concrete and masonry
- Very low water permeability
- Can be applied to green concrete
- Resistant to ground salts

APPROVALS / CERTIFICATES

- BRANZ Appraised certificate No.770 [2023]
- Appraised as an Alternative Solution in terms of the New Zealand Building Code
- Complies with AS/NZS 4020, tested for use in contact with drinking water (potable water)*
- Exceeds the NZS 3604:2011 moisture vapour permeability requirements for a damp-proof membrane. Sika BlackSeal® Elastic has been appraised by BRANZ as a damp-proof membrane behind concrete masonry basement walls, and insitu or precast concrete where the membrane is protected against damage, where drainage has been placed, and installation has been completed by a Licensed Building Practitioner trained and approved by Sika (NZ) Limited. Go to learnhow.sika.co.nz to obtain your application certificate. Refer to BRANZ Appraisal No. 770 [2023].

PRODUCT INFORMATION

Product identifier	Sika BlackSeal® Elastic
Place of manufacture	Aotearoa New Zealand
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 mass 60%

TECHNICAL INFORMATION

Tensile strain at break >1950%

Tensile adhesion strength 250 kN/m²

Permeability to water vapour 340 MN s/g

APPLICATION INFORMATION

Consumption Minimum application rate is 1 litre per m² (in addition to the primer coat). Ideally this should be applied as two full undiluted coats at a coverage rate of approximately 2m² / litre / coat, depending on the nature of the surface being treated.

Waiting time to overcoating Recoat time = minimum 4 hours, or longer in cold temperatures.

Drying time Touch dry in 1 to 2 hours. Recoat time = minimum 4 hours, or longer in cold temperatures.

MANUFACTURER AND IMPORTER INFORMATION

Manufacturer information	Address	Sika (NZ) Limited 85-91 Patiki Road Avondale, Auckland 1026 New Zealand
	Phone number	0800 745 269
	Website	https://nzl.sika.com/
	Email address	info@nz.sika.com
	NZBN	9429000018791

BUILDING CODE INFORMATION

Building Code clauses B2 Durability: Performance clause B2.3.1-(a) not less than 50 years
E2 External Moisture: Performance clause E2.3.3
F2 Hazardous Building Materials: Performance clause F2.3.1

Building Code compliance statements Performance B2.3.1 (a) 50 years: The BRANZ appraisal for this product states that, in their opinion, it meets this durability requirement and will remain serviceable for at least 50 years, when installed and maintained in accordance with the BRANZ Appraisal and relevant Sika technical literature. nzl.sika.com. According to Sika's "Service Improvement" records, maintained within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 2012.

Performance E2.3.3: The BRANZ Appraisal for this product nzl.sika.com states that it will meet the E2.3.3 weathertightness requirements when installed by a Sika trained applicator in accordance with the BRANZ Appraisal and all relevant Sika technical literature. nzl.sika.com The membrane has a vapour flow resistance of not less than 90 MN s/g and been used successfully in NZ since 2012

Performance F2.3.1. The BRANZ Appraisal for this product nzl.sika.com states that, in their opinion, it meets this requirement and does not present a health hazard to people. Refer to the product safety data sheet nzl.sika.com for further information if required

BASIS OF PRODUCT DATA

All technical data in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- Do not expose to sunlight.
- Do not overcoat with paints as staining will occur, and if exposed to sunlight the paint film will crack.
- Sika BlackSeal® Elastic is recommended for use only as described in the "Uses" section of this data sheet.

- *Sika BlackSeal® Elastic is not recommended for use internally on water retaining structures.
- Visit our website to watch the "How to apply Sika BlackSeal Elastic" video. (If you're a NZ LBP, do the short quiz and get your exclusive Sika BlackSeal Elastic certificate.) Sika® BlackSeal® Elastic

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

DESIGN REQUIREMENTS

The substrate that the membrane will be applied to must be in accordance with the NZBC to a relevant standard, such as NZS3101 for concrete, NZS 4230 or NZS 4229 for concrete masonry and NZS 3604 for timber framed Buildings.

SUBSTRATE QUALITY

Clean down surface to be treated removing all dust, grease, laitance and foreign matter. Remove any form release agent residues and curing compounds by high pressure waterblasting, grit blasting or mechanical wire brushing. Grind back smooth any dags, sharp edges or ridges. Any surface irregularities should be filled using Sika MonoTop repair mortars or Sikadur-41 epoxy repair mortar. Form a cove where required in internal corners. Stir Sika BlackSeal® Elastic thoroughly before use.

SUBSTRATE PREPARATION

CONTROL JOINTS: Movement control joints in concrete or concrete masonry should be sealed with Sika BlackSeal®-1 prior to applying Sika BlackSeal® Elastic. However, for joints under pressure, Sikaflex® Tank N should be used. Please note that Sikaflex® Tank N will require an isolation tape such as a pure aluminium foil tape overlay to prevent plasticiser migration from the Sika BlackSeal® Elastic. Refer to the Sika BlackSeal®-1 or Sikaflex® Tank N data-sheets for details on joint sizes and application methods. For high movement joints refer to the Sika technical department. **PRIMING:** A primer coat of 1 part clean water to 1 part Sika BlackSeal® Elastic should be used. Add water slowly and mix thoroughly. Apply at a rate of approximately 4m²/litre.

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NZ BUILDING PRODUCT INFORMATION SHEET

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MAINTENANCE REQUIREMENTS

Annual (or sooner if required) inspections must be made of the membrane top edge seal and protection, the backfill capping and the drainage pipe, to ensure all are functioning as originally designed. If necessary the drainage pipe must be cleared to remove sediment build up and the slope of the backfilled capping must be maintained at all times to allow surface water to be diverted away from the wall.

FURTHER DOCUMENTATION

Visit our website to watch the "How to apply Sika BlackSeal Elastic" video. (If you're a NZ LBP, do the short quiz and get your exclusive Sika BlackSeal Elastic certificate.) Sika® BlackSeal® Elastic

LOCAL RESTRICTIONS

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

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.

The building product/building product line is not subject to warning or ban under section 26 of the Building Act 2004.

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