

Sika Tite-BE

Acrylic based bitumen waterproofing membrane

Construction

Description

Sika Tite-BE is a water based bitumen emulsion modified with acrylic latex polymers. It can be applied as a waterproof membrane, sealant, protective coating or adhesive. It is designed for use underground, internal and immersed areas.

Uses

Sika Tite-BE is suitable for use in commercial, residential, industrial, rural and automotive applications. Waterproofing applications include:

- Retaining walls.
- Cellars and basements.
- Planter boxes.
- Ponds, tanks and water features.
- Gutter repairs.
- Roofing.
- Silos.
- Repair of existing bitumen surfaces and membranes.

Sika Tite-BE can also be mixed with sand and cement to create waterproof screeds, renders, fillets and fillers.

Sika Tite-BE is suitable for application to common building substrates including concrete, render, masonry, fibre cement, sheet, timber, clay brick, concrete block, aerated concrete, asphalt, treated metal and existing bitumen.

Advantages

- **Water based**, free of solvents and toxins.
- Excellent waterproofing properties.
- Can be used in varying thicknesses.
- Excellent bonding capabilities.
- Can be applied to damp surfaces.
- Can be mixed with sand/cement to improve adhesion, tensile strength, flexibility, sound dampening and to create falls.
- **Approved for use in potable water (AS4020:1999)**
- Can be painted or coated over.
- Easy to apply and work with.
- Can be applied to a wide range of substrates.

Storage and Shelf Life

Stored in original sealed packaging, in dry conditions away from direct sunlight, this product will keep for at least twelve (12) months.

Instructions for Use

Surface Preparation

Remove dirt, dust, oil, grease and all other contaminants from the surface. Any surface irregularities should be filled using SikaMonoTop repair mortars, Sikadur-41 epoxy repair mortar, or a repair mortar incorporating Sika Tite-BE.

Priming

A priming coat must be used on all substrates as part of the surface preparation. On concrete and masonry substrates the prime coat can be formed using the acrylic based Sika Tite Primer, or by diluting 1 part Sika Tite-BE with 3 parts water. On asphalt, bitumen, treated metal, plastic or smooth substrates, the prime coat should consist of 1 part Sika Tite-BE and 1 part water.

Application

Sika Tite-BE can be applied by brush, roller, airless spray or trowel. It can be applied to horizontal or vertical surfaces.

For general waterproofing work, Sika Tite-BE should be applied at a minimum of 2 coats. It is recommended that each coat be applied at a minimum of 1.5 litre per m² to give a wet film thickness of 1.2 to 1.5 mm per coat. Apply subsequent coats at different directions to the previous. Coverage is dependant on the condition of the surface and will vary accordingly.

Application (continued)**Reinforcement**

Reinforcement can be provided using Sika Fabric embedded in between coats of Sika Tite-BE. The fabric should be used over cracks (up to 2mm), and joints. The fabric should be applied into the first coat of SikaTite-BE whilst it is wet, and it should not be visible after the final coat.

Mixing

One component: When Sika Tite-BE is applied as a one component system, it is recommended that the material be lightly stirred before application.

Two component: Sika Tite-BE can be mixed with a sand and cement mix, or a pre-bagged mortar such as Sika Tite Filler, to form a mortar, screed, or render, with waterproofing properties. To create a mortar, add Sika Tite-BE to a pre-formed sand/cement mix. 3 parts sand to 1 part cement should be mixed with water to form a working mortar before Sika Tite-BE is added. The greater the amount of Sika Tite-BE added will result in a more waterproof and flexible finish (use 3 parts mortar to 1 part Sika Tite-BE as a starting point). This application is ideal when forming fillets at junctions, levelling floors and walls, filling voids or forming low build waterproof screeds.

Cleaning

All tools and equipment can be cleaned with water immediately after use. Hardened material can only be removed mechanically.

Technical and Physical Data

Colour	Charcoal brown when wet
	Charcoal black when dry

Volume of solids	40%
-------------------------	-----

Curing times	Tack free:	1-2 hours approx.
	Recoat time:	2-4 hours approx.
	Trafficable:	4-24 hours approx.

Application Temperature	10°C to 30°C
--------------------------------	--------------

Specific Gravity	1.2 kg / litre (without mortar added)
-------------------------	---------------------------------------

Shore A	52 approx.
----------------	------------

Tensile strength (AS1145)	0.3 MPa
----------------------------------	---------

Elongation (AS1145)	824%
----------------------------	------

Water vapour transmission (ASTM E96-95)	1.2g every 24 hours per m ²
--	--

Crack bridging (ASTM C876:95)	Cracks up to 2mm
--------------------------------------	------------------

Water absorption (ASTM E96-95)	Sika Tite-BE	:	Sika Tite Filler	Absorption rate
	1	:	1	1.66%
	1	:	3	2.10%
	1	:	5	2.35%

Packaging	Sika Tite-BE: 20 litre pails
	Sika Tite-Filler: 18.75kg bags
	Sika Tite Primer: 5 litre pail or 20 litre pail
	Sika Fabric: 100m rolls (various widths)

Important Notes

- Sika Tite-BE is subject to surface crazing when continuously exposed to UV light.
- Sika Tite-BE cannot bond two non-porous substrates together. It requires one surface to be porous for proper curing.
- A minimum of 10 days curing is required before Sika Tite-BE lined tanks can be filled with water.
- When using over existing paints, membranes and coatings, trials are recommended before applications.
- It is recommended that Sika Tite-BE be coated with Sika Tite-WB, or other acrylics, early in the morning or late in the evening, when ambient and substrate temperatures are low.
- Sika Tite-BE should not be used as a trafficable surface.
- Do not apply when rain is imminent.
- Do not apply when surface temperature is below 10°C or above 35°C.
- All finish coatings over this membrane must be water based and solvent free such as Sika Tite-WB.

Handling Precautions

- Avoid contact with skin, eyes and avoid breathing in vapour.
- Wear protective gloves when mixing or using this product.
- If poisoning occurs contact a doctor or Poisons Information Centre.
- If swallowed do NOT induce vomiting, give a glass of water.
- If skin contact occurs, wash immediately and thoroughly with soap and water.
- If in contact with the eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
- A full Material Safety Data Sheet is available from Sika on request.

Important Notification

The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.



Construction



Sika Australia Pty Limited
ABN 12 001 342 329

www.sika.com.au
Tel: 1300 22 33 48