



Construction

Sikalastic® Coldstik

Two-component solvent-free polyurethane adhesive used in the construction of SikaRoof® MTC Cold Bonding

Positioning

Description

Sikalastic Coldstik is a two-component, solvent-free polyurethane adhesive.

Use

To bond Sikalastic Vap, Sikalastic Insulation and Sikalastic Carrier to various substrates.

Advantages

- Solvent Free
- Suitable substrates:
 - Plywood, timber and other timber based boards
 - Concrete
 - Galvanised steel
 - Aluminium
 - Asphalt
 - Sikalastic Insulation
 - Cork insulation board
 - Bitumen based felt membranes (inc. SBS modified felt)

Product Data

Form:

Twin-pack product

Colour:

Colourless to pale yellow liquid / amber

Storage & Shelf Life:

Containers should only be stored in an area that is well ventilated, dry and free from extremes of temperature and humidity. Store away from heat and naked flames. For best results, store Sikalastic Coldstik Part A at 15°C to 25°C for 24 hours prior to application. Only open containers when ready for use. Shelf life is 12 months from date of production if stored properly in original, unopened and undamaged sealed containers. Expiry date on container.

Packaging:

Sikalastic Coldstik (pack size) 12kg; Part A: 8 kg and Part B: 4kg

Technical Data

Chemical Basis:

Two-component, solvent-free polyurethane adhesive

Density:

1.0 kg/litre

Flash Point:

> 200°C

Application Conditions

Substrate Quality

Cementitious substrates

New concrete should be cured for at least 28 days and should have a Pull off strength ≥ 1.5 N/mm². Inspect the concrete, including upstands, all areas should be hammer tested.

Brick and stones

Mortar joints should be sound and preferably flush pointed.

Asphalt

Asphalt contains volatiles which can cause bleeding and slight non-detrimental staining. The asphalt must be carefully assessed for moisture and /or air entrapment, grade and surface finish prior to any coating works being carried out.

Bituminous felt

Ensure that Bituminous felts are firmly adhered or mechanically fixed to the substrate. Bituminous felt should not contain areas with badly degraded felt.



Bituminous Coatings

Bituminous coatings should not have sticky or mobile surfaces, volatile mastics coatings or cold coal tar coatings. Loose or damaged coatings are to be removed.

Metals

Metals must be in sound conditions.

Wooden substrates

Timber and timber based panel roof decks have to be in good condition, firmly adhered or mechanically fixed.

Paints

Ensure that the existing material is sound and firmly adhered. Loose or damaged coatings are to be removed.

Existing SikaRoof MTC Systems

The existing SikaRoof MTC Systems should be soundly adhered to the substrate.

Substrate Preparation

Cementitious substrates

Cementitious or mineral based substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Loose friable material and weak concrete must be completely removed and surface defects such as blowholes and voids must be fully exposed.

Repairs to the substrate, filling of joints, blowholes / voids and surface leveling must be carried out using appropriate products from the Sikafloor, Sikadur range of materials.

High spots must be removed e.g. by grinding.

Brick and stones

Power wash and use Sikalastic Biowash as required

Asphalt

Power wash and use Sikalastic Biowash as required. Blisters must be flattened. All major cracks should be sealed to allow continuity of the Sikalastic Waterproofing membrane.

Bituminous felt

Power wash and use Sikalastic Biowash as required. Treat blisters by star cutting and removing any underlying water. Allow to dry and re-adhere using Sikalastic Coldstik.

Bituminous coatings

Power wash and use Sikalastic Biowash as required. Ensure coating are fully adhered.

Metals

Steelwork is ideally prepared to Sa2½ (Swedish Standard SIS 05 : 5900 = 2nd quality BS4232 = S.S.P.C. grade SP10) or as indicated by the blasting specification which may be of a higher standard. Where blasting is not permitted, then clean metal preparation by pin hammer etc. is acceptable.

Non ferrous metals are prepared as follows. Remove any deposits of dust and oxidation and abrade to bright metal. Wire brushing can be used for soft metal such as lead. The surface must be clean and free from grease which, if present, must be removed with a proprietary solution. Wash with detergent, rinse and dry.

Wooden substrates

Clean by conventional means. Repair / replace any damaged or rotten timber.

Paints

Ensure the surface is clean and free from grease. Ensure coatings are fully adhered.

Existing SikaRoof MTC System

Clean the membrane using a water jet at approximately 14N/mm² (2000p.s.i) using Sikalastic Biowash if necessary. Allow to dry.

NOTE: For the Waiting Time / Overcoating you shall refer to the Product Data Sheet of the appropriate cleaner. Other substrates have to be tested for their compatibility. If in doubt, apply a test area first.

Application Conditions/ Limitations

Substrate and ambient Temperature

+5°C min / +20°C max (For higher temperature applications use Sikalastic Coldstik HT)



Substrate Moisture Content < 20% wood moisture equivalent as measured by a protimeter. Ensure the surface is visibly dry.

Dew Point Beware of condensation! Surface temperature during application must be at least +3°C above dew point.

Application Instructions

Application Method Use a Sikalastic Applicator or a pouring can to apply the Sikalastic Coldstik.

Application Tools Pouring can or Sikalastic Applicator is used to snake the Sikalastic Coldstik to the structural deck, the Sikalastic Vap or the Sikalastic Insulation.

Pot Life

Temperature (°C)	Pot life
5	30 min
10	25 min
15	20 min
20	15 min

Notes on Application / Limitations

- Substrate moisture content must be <4% moisture – all surfaces must be visibly dry.
- No attempt should be made to alter the mixing ratio of Sikalastic Coldstik by the addition of any other products including solvents and thinners.
- Application of further Sikalastic coatings may commence from one hour after the application of Sikalastic Coldstik. All excess adhesive should be removed with a scraper as work proceeds.

Notes 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 & Safety Instructions

- Protective Measures**
- To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work.
 - Local regulations as well as health and safety advice on packaging labels must be observed.
 - For further information refer to the Sika Material Safety Data Sheet which is available on request.
 - If in doubt always follow the directions given on the pack or label.

- Important Notes**
- Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.
 - Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.

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.



Sika (NZ) Ltd
PO Box 19192
Avondale
Auckland
New Zealand

Phone: 0800 SIKA NZ
Fax: 0800 SIKA FAX
Email: info@nz.sika.com

0800 745 269
0800 745 232
www.sika.co.nz

