

BUILDING PRODUCT INFORMATION SHEET

Sika® Prohesive Proflex

A HIGH STRENGTH, POLYMER & RUBBER FORTIFIED, CEMENT BASED ADHESIVE WHICH HAS BEEN FORMULATED TO PROVIDE EXTENDED COVERAGE AND FLEXIBILITY

DESCRIPTION

Sika® Prohesive Proflex is a high strength, polymer and rubber modified, flexible, cement based adhesive which has been formulated to provide extended coverage and excellent flexibility. It is suitable for most tiling applications, including green screeds, and it can be used internally and externally for wall and floor applications.

USES

Sika® Prohesive Proflex is suitable for:

- Fixing tile & Stone by Thin-Bed application
- Medium-Bed applications up to 10mm.
- Internal & external applications
- Floor & wall applications

SUITABLE TILE TYPES ARE;

- Ceramic Tiles
- Porcelain Tiles
- Glass Mosaics
- Mosaic Tiles
- Natural Stone (non moisture sensitive)

SUITABLE SUBSTRATES INCLUDE;

- Concrete (concrete above 35 MPa requires mechanical preparation prior to fixing)
- Compressed cement boards*
- Ceramic tile underlay / fibre cement boards*
- Existing tiles (used in conjunction with Eco Systems PREP N PRIME)

PRODUCT INFORMATION

Product identifier

Sika® Prohesive Proflex

- Brick masonry
- Concrete masonry
- Sika Approved Waterproof Membranes
- Cement mortar beds / screeds (must be minimum 24 hours old at 23°C & 50% relative humidity)
- Gypsum plaster board*
- Sika approved acoustic mat

*refer to board manufacturers instructions for further details and load limits.

LIMITATIONS OF USE

The product is not a substitute for any mechanical fixings that are specified by the manufacturer of the element being bonded

FEATURES

- Excellent bond strength
- Excellent non slump properties
- Flexible S1 performance
- Extended coverage
- Low VOC
- Internal and external use
- Wall and floor use
- Can be applied over early aged mortar bed / screeds
- Suitable for applications with thermal movement
- Suitable over Sika approved membranes
- Non combustible

Place of manufacture	Aotearoa New Zealand
Product declaration	C2TES1 Class adhesive AS ISO 13007-20013
Composition	Cement, selected quartz minerals, rubber, polymer, and special additives.
Packaging	20kg bags / 64 Bags per Pallet
Shelf life	12 Months from date of manufacture.
Storage conditions	Store off ground in cool dry conditions for maximum shelf life (high humidity will reduce shelf life).
Appearance and colour	Off white with rubber crumb.

TECHNICAL INFORMATION

Transverse deformation	S1 Class $\geq 2.5\text{mm}$ $< 5\text{mm}$ AS ISO 13007.2:2010	
Tensile adhesion strength	Initial Tensile	$\geq 1\text{N}/\text{mm}^2$
	After water immersion	$\geq 0.5\text{N}/\text{mm}^2$
	After heat ageing	$\geq 0.5\text{N}/\text{mm}^2$

APPLICATION INFORMATION

Mixing ratio	7.5 - 8 Litres of water per 20kg Bag	
Consumption	Notched Trowel Size	Approx coverage per bag
	6 mm	12 m ²
	10 mm	8.5 m ²
Slip resistance	$\leq 0.5\text{mm}$	
Ambient air temperature	+5°C Min / + 35°C Max	
Substrate temperature	+5°C Min / +35°C Max	
Pot Life	3.5 hours at 23°C & 50% RH	
Open Time	30 Minutes at 23°C & 50% RH	
Applied product ready for use	USE	WAITING TIME
	Grouting on walls	8-10 hours
	Grouting on floors	16-20 hours
	Light foot traffic	16-20 hours
	Full services	5 Days
Values determined at laboratory conditions: 23°C & 50% RH.		
Higher temperatures will reduce times and lower temperatures will increase times.		

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

Note: This product, on its own, is not within the scope of the NZ Building Code. However, when it is used as part of an impervious floor or wall lining system (E3/AS1) or with other building elements that must comply with the NZ Building Code, and it is used in accordance with that material supplier's specification and Sika's technical literature, it will contribute to meeting the requirements of the following clauses:

B1 Structure: Performance clauses B1.3.1, B1.3.2, B1.3.3 (a, b, j, q), B1.3.4

B2 Durability: Performance clause B2.3.1 - (b) 15 years

E3 Internal Moisture: Performance Clauses E3.3.3, E3.3.4, E3.3.5, E3.3.6

F2 Hazardous Building Materials: Performance clause F2.3.1

Building Code compliance statements

Performance B1.3.1, B1.3.2, B1.3.3 (a, b, j, q) B1.3.4: When used as an adhesive this product contributes to meeting the loading requirements that bonded lining elements are subjected to, as a result of self-weight, imposed in-use gravity loading, impact, and the effects of creep and shrinkage over time.

Performance B2.3.1 (b) 15 years: This product has been evaluated in accordance with B2/VM1. It meets this durability requirement and will remain serviceable for 15 years, or more, when installed and maintained in accordance with the 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 2015.

Performance E3.3.3, E3.3.4, E3.3.5, E3.3.6: When this product is used as an adhesive to bond ceramic or stone tiles, with a maximum moisture content of 6%, onto a Sika liquid applied membrane, or as a grout between the tile joints, it contributes to meeting the Clause E3 Internal Moisture requirements for impervious linings, in accordance with E3/AS1

Performance F2.3.1: This product meets this requirement when used and applied in accordance with Sika's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Sika Product Technical Data sheet and 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

- Sika® Prohesive Proflex is not suitable for applications over tongue and grooved timber flooring, plywood, medium density fibre board, or masonite.
- Sika® Prohesive Proflex is not suitable for moisture sensitive stone.
- Mechanical fixing is recommended when fixing externally above 3 meters.
- Sika® Prohesive Proflex is not suitable to be applied directly over solvent based waterproof membranes.
- The performance of cement based adhesives will be compromised when used above 35°C and under 5°C.
- Efflorescence is beyond the control of the manufacturer.
- Sika® Prohesive Proflex is not suitable for submerged applications.
- Contact Sika for advice if further information is required.

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

If the building elements to be bonded are within the scope of the NZ Building Code then the bonding instructions of the manufacturer / supplier of those elements must be followed

In accordance with NZBC E3 Internal Moisture and with reference to E3/AS1 impervious linings and floor coverings, the adhesive for ceramic or stone tiles must be specified by the tile manufacturer (supplier) as part of their system deemed to be suitable for the required application.

SUBSTRATE QUALITY

Substrate Deflection: All substrates under loads must not exceed L/360 to tiles and L/450 for stone applications.

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- Substrates must be properly cured, structurally sound, free from loose or friable articles, clean, dry and free from contaminants such as dust, dirt, oil, grease, curing compounds, laitance or efflorescence.
- Dependant on the substrate condition and contamination to be removed from the surface, perform adequate preparation techniques, such as water blasting, scarification, or blast cleaning in order to remove all traces of any materials that could reduce the products adhesion to the substrate.
- For tiling wet areas, a suitable Sika approved waterproof membrane system should be used prior to tiling.

CONCRETE FLOORS: Allow 28 days for concrete to cure. Concrete shall be left with an open surface - steel trowel finishes are generally acceptable if they accept water. Wood Float and broom finishes are preferred where possible. **CEMENT MORTAR BEDS / SCREEDS:** Mortar beds / screeds must be installed as per AS ISO 3858.1-2007. Mortar beds / screed must be a minimum 24 hour old at 23°C & 50% R.H. **SHEETED / BOARD SUBSTRATES:** All boards / underlays must be fixed in accordance to manufacturers instructions and specifically designed for tiling.

PRIMING: Porous substrates: Eco Prime WB*. Non Porous Substrates: Eco Prep N Prime**refer to primer data sheets for additional information.

MIXING

Pour clean cool water into a mixing container and gradually pour the the Sika® Prohesive Proflex powder into the container and stir with a slow speedmixing drill (approx 500rpm). Mix for 2-3 minutes to a smooth lump free homogeneous consistency. Allow the product to stand (slake) for 5 minutes then restire for an additional minute. Do not add more water. Restirring the mixture may be required during the adhesives pot life.

APPLICATION

Tiles shall be fixed in accordance to with AS 3958.1-2007.

- Ensure the backs of tiles are clean and free from dust and contaminates.
- Apply the adhesive to the substrate with the appropriate sized notched trowel to achieve coverage requirement on both substrate and the back of the tile. Tiles may require back-buttering to acheive minimum coverage requirements.
- Apply the adhesive with a notched trowel in a single direction. Apply the tile, while pressing into the wet adhesive, break the ridges with the tile to fully bed the tile into the adhesive.
- It is advisable to periodically check the backs of the tiles for adhesive coverage requirements as the AS3958.1-2007.
- Only apply as much adhesive that can be covered prior to adhesive skinning. If skinning occurs remove and replace with fresh adhesive.

- Remove any excess adhesive from the face of the tile with a damp sponge and ensure grout joint are of uniform depth.
- Movement, expansion and control joints must be installed as per AS 3958.1-2007.
- For tile over tile applications, existing tiling must be adequately cleaned prior to application. Ensure existing tiling is sound and free from defect. Prime existing tiles with Prep n Prime and allow to dry. Gloss or polished tiles must be mechanically prepared prior to priming with Eco Prep n Prime.

CLEANING OF EQUIPMENT

Tools and equipment can be cleaned with water while the adhesive is still wet.

MAINTENANCE REQUIREMENTS

The building element being bonded, and the bonding substrate must both be maintained in accordance with each of their manufacturers instructions

For maintenance of impervious wall and floor lining systems that have been installed to enable compliance with Clause E3/AS1, refer to the supplier of the system installed

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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