

BUILDING PRODUCT INFORMATION SHEET

Prohesive Ecoflex (NZ)

A flexible rubber modified, polymer fortified, cement based adhesive designed for a variety of tiling applications

DESCRIPTION

Prohesive Ecoflex (NZ) is a flexible, rubber modified, polymer fortified, cement based adhesive designed for a variety of tiling applications. Prohesive Ecoflex (NZ) has extended coverage and is suitable for internal and external applications.

USES

Prohesive Ecoflex (NZ) is suitable for:

- Thin bed application
- Wall and floor tiling applications
- Internal and external tiling applications

Suitable tile types are:

- Ceramic
- Porcelain
- Mosaic
- Terracotta
- Quarry

SUITABLE SUBSTRATES:

- Concrete (concrete above 35 MPa requires mechanical preparation prior to fixing)
- Compressed cement boards*
- Ceramic tile underlay / fibre cement boards*

PRODUCT INFORMATION

Product identifier	Prohesive Ecoflex (NZ)
Place of manufacture	Aotearoa New Zealand
Composition	Cement, rubber crumb, quartz minerals, polymers, & special additives.
Packaging	20 kg bags
Shelf life	Twelve (12) months from date of manufacture, if stored as stated.
Storage conditions	Store off ground in dry cool conditions for maximum shelf life (high humidity will reduce shelf life).

- Masonry
- Sika approved waterproof membranes
- Cement mortar beds / screeds
- Gypsum Plasterboard*

*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

- Great workability
- Extended coverage
- Flexible S1 performance
- Internal and external use
- Wall and floor use
- Suitable over a variety of substrates
- Low VOC

APPROVALS / CERTIFICATES

C1TES1 Class adhesive AS ISO 13007

Appearance and colour Off white powder with rubber crumb

TECHNICAL INFORMATION

Transverse deformation > 2.5 mm < 5mm

Tensile adhesion strength

Initial tensile	≥ 1 MPa	(AS ISO 13007:2013)
After water immersion	≥ 0.5 MPa	
After heat ageing	≥ 0.5 MPa	

APPLICATION INFORMATION

Mixing ratio 6 - 6.5 litres of water per 20 kg bag

Consumption	Notched Trowel Size	Approx. coverage per bag
	6 mm	10.5 m ²
	10 mm	7 m ²

Consumption is dependant on surface profile, roughness and application technique.

Slip resistance < 0.5 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 25 minutes at +23°C & 50% RH

Applied product ready for use	Use	Wait Time
	Grouting on walls	6 - 8 hours
	Grouting on floors	16 - 20 hours
	Light foot traffic	20 hours
	Full service	4 - 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

NZ BUILDING PRODUCT INFORMATION SHEET

Prohesive Ecoflex (NZ)
12/12/2024 File version 1.0
02171010200000504

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

- Prohesive Ecoflex (NZ) is not suitable for applications over tongue and grooved timber flooring, plywood, medium density fibre board, or masonite.
- Prohesive Ecoflex (NZ) is not suitable for moisture sensitive stone.
- Mechanical fixing is recommended when fixing externally above 3 meters.
- Prohesive Ecoflex (NZ) 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.
- Prohesive Ecoflex (NZ) 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

- Substrates must be properly cured, structurally sound, free from friable particles, clean, dry, and free from contaminants such as dirt, dust, oil, grease, curing compounds, crystalline admixtures, release agents, 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 contaminants that could reduce the product's adhesion to the substrate.
- For tiling wet areas, a suitable Sika under tile waterproof membrane should be used prior to tiling.
- **CONCRETE FLOORS:** Allow 28 days for concrete to cure. Concrete shall be left with open surface - steel trowel finishes are generally acceptable if they accept water. Wood float finishes are preferred where possible.
- **CEMENT MORTAR BEDS / SCREEDS:** Must be installed as per AS ISO 3958.1-2007.
- **SHEETED / BOARD SUBSTRATES:** All boards and sheets must be installed as per manufacturers' instructions and specifically designed for tiling.
- **PRIMING:** Porous substrates: Eco Prime WB. Non Porous Substrates: Eco Prep n Prime

MIXING

Pour clean cool water into a mixing container and gradually pour the Prohesive Ecoflex (NZ) powder into the container and stir with a slow speed mixing drill (approx 500 rpm). Mix for 2-3 minutes to a smooth lump free homogeneous consistency. Allow the product

NZ BUILDING PRODUCT INFORMATION SHEET

Prohesive Ecoflex (NZ)
12/12/2024 File version 1.0
02171010200000504

to stand (slake) for 5 minutes then restir for an additional minute. Do not add more water. Restirring the mixture may be required during the adhesive's 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 acheive 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 per AS 3958.1-2007.
- Only apply as much adhesive as 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 joints are of uniform width.
- 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 Eco 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 Prohesive Ecoflex (NZ) 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.

Sika (NZ) Limited

85-91 Patiki Road
Avondale, Auckland 1026
New Zealand
0800 745 269
www.sika.co.nz

NZ BUILDING PRODUCT INFORMATION SHEET

Prohesive Ecoflex (NZ)
12/12/2024 File version 1.0
02171010200000504

NZBPIS-197236-7502-7502-en-GB-1.0