

# BUILDING PRODUCT INFORMATION SHEET

## Prohesive ProMaxset Plus (NZ)

Premium cement based polymer fortified flexible adhesive for tile and stone applications

### DESCRIPTION

Prohesive ProMaxset Plus (NZ) is a premium, cement based, polymer fortified, flexible adhesive designed for a variety of tile and stone applications.

### USES

Prohesive ProMaxset Plus (NZ) is suitable for fixing tile and stone by thin-bed application, for medium-bed applications up to 15mm, for internal and external applications, for residential pool tile applications, and is suitable for installation over Sika Approved Acoustic Mat. **SUITABLE TILE TYPES:** Ceramic, Pocelain, Glass Mosaic, Mosaic, Thin Brick Veneer and non-moisture sensitive Natural Stone / Terrazzo or man-made stone. **SUITABLE SUBSTRATES:**

- 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)
- 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

- Single part, mix only with water
- Internal & external applications
- Residential pool tile applications
- Suitable for early age mortar beds / screeds
- Multi use applications
- Flexible S1 performance
- May be used as a bond coat for cement mortar beds/screeds
- Non combustable
- Economical

### PRODUCT INFORMATION

<b>Product identifier</b>	Prohesive ProMaxset Plus (NZ)
<b>Place of manufacture</b>	Aotearoa New Zealand
<b>Product declaration</b>	C2TES1 Class adhesive AS/ISO 13007
<b>Composition</b>	Cement, selected quartz mineral aggregates, polymers and special additives.
<b>Packaging</b>	20 kg bags and 5 kg pails
<b>Shelf life</b>	Twelve (12) months from date of manufacture if stored as stated.
<b>Storage conditions</b>	Store off ground in dry conditions for maximum shelf life (high humidity will reduce shelf life).

**Appearance and colour** White powder

## TECHNICAL INFORMATION

**Transverse deformation**  $\geq 2.5$  mm

<b>Tensile adhesion strength</b>	Test	Result	Requirement	(AS ISO 13007.18 & .2)
	Initial tensile	$\geq 1.5$ N/mm <sup>2</sup>	$\geq 1$ N/mm <sup>2</sup>	
	After water immersion	$\geq 1.1$ N/mm <sup>2</sup>	$\geq 1$ N/mm <sup>2</sup>	
	After heat aging	$\geq 1.5$ N/mm <sup>2</sup>	$\geq 1$ N/mm <sup>2</sup>	

## APPLICATION INFORMATION

- Mixing ratio**
- **As a Tile & Stone adhesive:** 5 - 5.5 litres of water per 20 kg bag.
  - **As a bond coat for cement mortar beds:** 6.5 - 6.8 litres per 20 kg bag.

<b>Consumption</b>	Notched Trowel Size	Approx. coverage per bag
	6 mm	10 m <sup>2</sup>
	10 mm	5.5 m <sup>2</sup>

**Layer thickness** **Thin-Bed Application:** Min 3 mm - 6 mm bed thickness **Medium-Bed Application:** Up to 15 mm bed thickness

**Slip resistance**  $\leq 0.5$  mm

**Ambient air temperature** +5°C min. / +35°C max.

**Substrate temperature** +5°C min. / +35°C max.

**Pot Life** 4 hours at +23°C & 50% RH

**Open Time** 30 minutes at +23°C & 50% RH.

**Adjustability time** 50 minutes, dependent on substrate, porosity of tile, environment and site conditions.

**Application** Protect from adverse weather conditions, such as extremely high or low (freezing) temperatures, rain, and extreme direct exposure to sun for 12 - 24 hours from application.

### Tiles shall be fixed in accordance 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 requirements on both substrate and the back of tiles.
- Tiles may require "back-buttering" to achieve minimum coverage requirements.
- Apply the adhesive with the notched trowel in a single direction.
- While pressing the tiles into the wet adhesive, break adhesive ridges with the tile to fully bed the tile into the adhesive.
- It is advisable to periodically check the back of the tiles to ensure adequate coverage of adhesive is achieved in accordance to the standard.
- Only apply as much adhesive that can be covered by the tiles prior to skinning. If adhesive skins prior to placement of tiles, remove and replace.
- Remove any excess adhesive from the face of tiles and ensure grout joints are cleaned and free from excess adhesive and are a uniform depth.
- Movement, expansion and control joints must be installed as per AS ISO 3958.1-2007.
- For tile over tile applications use Eco Systems Prep n Prime.
- Ensure existing tiles are fixed soundly and free from defect.
- Gloss finished or polished tiles need mechanical preparation prior to priming with Eco Systems Prep n Prime.

<b>Applied product ready for use</b>	Use	Waiting Time
	Grouting on floors	20 - 24 hours
	Grouting on walls	6 - 8 Hours
	Full traffic / use	7 days
	Filling with water	21 days

### NZ BUILDING PRODUCT INFORMATION SHEET

Prohesive ProMaxset Plus (NZ)

12/12/2024 File version 1.0

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Values determined at laboratory conditions: +23°C ± 2°C, R.h. 50% ± 5%. Higher temperatures will reduce waiting time, and lower temperatures increase times.

## MANUFACTURER AND IMPORTER INFORMATION

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

## BUILDING CODE INFORMATION

<b>Building Code clauses</b>	<p>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:</p> <p>B1 Structure: Performance clauses B1.3.1, B1.3.2, B1.3.3 (a, b, j, q), B1.3.4</p> <p>B2 Durability: Performance clause B2.3.1 - (b) 15 years</p> <p>E3 Internal Moisture: Performance Clauses E3.3.3, E3.3.4, E3.3.5, E3.3.6</p> <p>F2 Hazardous Building Materials: Performance clause F2.3.1</p>
<b>Building Code compliance statements</b>	<p>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.</p> <p>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. <a href="https://nzl.sika.com">nzl.sika.com</a>. 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 2019.</p> <p>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</p> <p>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 <a href="https://nzl.sika.com">nzl.sika.com</a> for further information if required</p>

## 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 ProMaxset Plus (NZ) cannot be used directly over tongue and grooved timber flooring, particle board, plywood, medium density fibre board or masonnite.
- Prohesive ProMaxset Plus (NZ) is not suitable for fixing moisture sensitive tile or stone.

- Prohesive ProMaxset Plus (NZ) cannot be used over solvent based polyurethane waterproof membranes.
- Prohesive ProMaxset Plus (NZ) can be only used over Sika approved waterbased waterproof membranes.
- Special fixing techniques are required when fixing externally at heights above 2.7 meters.
- The performance of cement based tile adhesives will be compromised when tiling in temperatures below 5°C and above 35°C.

### NZ BUILDING PRODUCT INFORMATION SHEET

Prohesive ProMaxset Plus (NZ)  
12/12/2024 File version 1.0  
02171010200000502

- Efflorescence is beyond the control of the manufacturer.
- 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

- All substrates under loads must not exceed deflection limits of L/360 for tiles and L/450 for stone applications.
- 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.
- Any small defects and surface variations in level, profile or around exposed aggregates for example, can be prefilled and levelled with an additional layer of Prohesive ProMaxset Plus (NZ), to a maximum thickness of 15mm, applied at least 24 hours prior to the tiles being laid.
- For larger areas of surface correction, the appropriate Sika MonoTop® or Sikafloor® level range should be used.
- Cracks in substrates must be identified and sealed / treated appropriately.
- For applications in hot climates / environments and / or on absorbant substrates, thoroughly pre dampen the surface immediately prior to the product application, but avoid ponding / standing water on the surface, which must not be damp to touch, ie, it must be saturated surface dry (SSD).
- For tiling wet areas, a suitable Sika approved waterproof membrane system should be used prior to tiling.

### PERFORM THE SUBSTRATE TEST:

- No water absorbed: Mechanically prepare the surface / use Eco Systems Prep N Prime.
- Moderate water absorbed: Clean with a damp sponge and fresh water.
- All water absorbed: Broom liberal amounts of water on substrate / Prime with Eco System Prime WB.

**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 display the "moderate water absorbed" in the substrate test. 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 hours old at 23°C & 50% R.H.

**Sheeted substrates:** All boards / underlays must be fixed in accordance to manufacturers instructions and specifically designed for tiling.

### MIXING

Pour the recommended amount of fresh cool water into a clean mixing container. Whilst stirring slowly using a slow speed electric mixer (approx 500rpm) add the powder and mix to a smooth lump free homogeneous mix is achieved. Allow Mix to stand and "slake" for 5 minutes and immediately restir for an additional 2 minutes. Restirring the mix may be necessary but do not add additional water.

### CLEANING OF EQUIPMENT

Tools and equipment can be cleaned with water prior to the adhesive setting.

### 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 sup-

plied 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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