

PRODUCT DATA 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, Pcelain, 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/ SikaTile-015 NPP)
- 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.

CHARACTERISTICS / ADVANTAGES

- 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

Product Declaration	C2TES1 Class adhesive AS/ISO 13007
Chemical Base	Cement, selected quartz mineral aggregates, polymers and special additives.
Packaging	20 kg bags (Grey & White) 5 kg pails (White only)
Shelf Life	Twelve (12) months from date of manufacture if stored as stated.
Storage Conditions	Store off ground in dry conditions for maximum shelf life (high humidity will reduce shelf life).
Appearance / Colour	White & Grey powder

TECHNICAL INFORMATION

Transverse deformation	≥ 2.5 mm		
Tensile Adhesion Strength	Test	Result	Requirement (AS ISO 13007.18 & .2)
	Initial tensile	≥ 1.5 N/mm ²	≥ 1 N/mm ²
	After water immersion	≥ 1.1 N/mm ²	≥ 1 N/mm ²
	After heat aging	≥ 1.5 N/mm ²	≥ 1 N/mm ²
Slip Resistance	≤ 0.5 mm		

APPLICATION INFORMATION

Mixing Ratio	<ul style="list-style-type: none"> 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. 	
Consumption	Notched Trowel Size	Approx. coverage per bag
	6 mm	10 m ²
	10 mm	5.5 m ²
Layer Thickness	Thin-Bed Application: Min 3 mm - 6 mm bed thickness Medium-Bed Application: Up to 15 mm bed thickness	
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.	
Applied Product Ready for Use	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
<i>Values determined at laboratory conditions: +23°C ± 2°C, R.h. 50% ± 5%. Higher temperatures will reduce waiting time, and lower temperatures increase times.</i>		

BASIS OF PRODUCT DATA

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.

LIMITATIONS

- 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.

- 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

SUBSTRATE QUALITY / PRE-TREATMENT

- 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 / SikaTile-015 NPP
- 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 / Sikafloor-01 Primer / SikaPrimer-11 W +

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.

APPLICATION

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

- Ensure the backs of tiles are clean and free from dust and contaminants.
- 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/ SikaTile-015 NPP.
- 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/SikaTile-015 NPP.

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.

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 war-

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