

## PRODUCT DATA SHEET

# Sika® Prohesive Proflex

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

SIKA NZ CTA  
APPROVED  
CONTRACTOR  
ONLY

### 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)
  - 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

- 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

### PRODUCT INFORMATION

<b>Chemical Base</b>	Cement, selected quartz minerals, rubber, polymer, and special additives.
<b>Packaging</b>	20kg bags / 64 Bags per Pallet
<b>Appearance / Colour</b>	Off white with rubber crumb.
<b>Shelf Life</b>	12 Months from date of manufacture.
<b>Storage Conditions</b>	Store off ground in cool dry conditions for maximum shelf life (high humidity will reduce shelf life).

## TECHNICAL INFORMATION

<b>Tensile Adhesion Strength</b>	Initial Tensile	≥1N/mm <sup>2</sup>	AS ISO 13007.2:2010
	After water immersion	≥0.5N/mm <sup>2</sup>	
	After heat ageing	≥0.5N/mm <sup>2</sup>	
<b>Transverse deformation</b>	S1 Class ≥2.5mm <5mm AS ISO 13007.2:2010		
<b>Slip Resistance</b>	≤0.5mm		

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	7.5 - 8 Litres of water per 20kg Bag		
<b>Consumption</b>	<b>Notched Trowel Size</b>	<b>Approx coverage per bag</b>	
	6 mm	12 m <sup>2</sup>	
	10 mm	8.5 m <sup>2</sup>	
<b>Ambient Air Temperature</b>	+5°C Min / + 35°C Max		
<b>Substrate Temperature</b>	+5°C Min / +35°C Max		
<b>Pot Life</b>	3.5 hours at 23°C & 50% RH		
<b>Open Time</b>	30 Minutes at 23°C & 50% RH		
<b>Applied Product Ready for Use</b>	<b>USE</b>	<b>WAITING TIME</b>	
	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.			

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

**Substrate Deflection:** All substrates under loads must not exceed L/360 to 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.
- For tiling wet areas, a suitable Sika approved water-proof 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 speed mixing 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 achieve 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 TOOLS

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

## LIMITATIONS

- 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.

## 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.

## 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.

## 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.

## 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.

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