

# PRODUCT DATA SHEET

## Prohesive Lite

A SINGLE PART LIGHT WEIGHT POWDERED FLEXIBLE ADHESIVE FOR TILE AND STONE APPLICATIONS

SIKA NZ CTA  
APPROVED  
CONTRACTOR  
ONLY

### DESCRIPTION

Prohesive Lite is a premium, flexible, light weight, polymer fortified cement based adhesive designed for a variety of tile and stone applications. Prohesive Lite can be used on both walls & floors, internally and externally.

### USES

**Prohesive Lite is suitable for:**

- Fixing tile and stone by thin-bed application.
- Fixing tile and stone by thick-bed application up to 15mm bed thickness.
- Both internal and external applications.
- Wall and floor applications.
- Fixing large format tile and stone.
- Use over Sika approved acoustic mats / underlays.
- Use over Sika approved under tile waterproof membranes.

**SUITABLE TILE TYPES ARE:**

- Ceramic tiles
- Porcelain tiles
- Mosaic tiles
- Glass mosaic tiles
- Natural stone (non moisture sensitive)
- Terrazzo tiles (non moisture sensitive)
- Manufactured stone (non moisture sensitive)

### SUITABLE SUBSTRATES INCLUDE:

- Concrete (concrete above 35 MPa compressive strength requires mechanical preparation prior)
  - Compressed cement boards\*
  - Ceramic tile underlay / fibre cement sheet\*
  - Masonry
  - Sika undertile waterproof membranes
  - Gypsum plaster board - internal only
  - Sika approved acoustic underlays and mats
- \*Refer to board manufacturers strict installation instructions for further details and load limits.

### CHARACTERISTICS / ADVANTAGES

- Single component - mix only with water
- Internal and external use
- Wall and floor use
- Can be applied on early aged mortar beds / screeds
- Excellent coverage compared to typical cement based adhesives
- Excellent performance with large format tile and stone
- Light weight technology
- Excellent non slump properties
- Easy to spread
- Multi use applications
- Flexible S1 performance
- Non combustible
- Low VOC

### PRODUCT INFORMATION

<b>Chemical Base</b>	Cement, light weight aggregates, polymers and special additives.
<b>Packaging</b>	13.5kg bags / 64 Bags per Pallet
<b>Appearance / Colour</b>	White powder
<b>Shelf Life</b>	12 months from date of manufacture
<b>Storage Conditions</b>	Store off ground in dry cool conditions for maximum shelf life (high humidity will reduce shelf life).

## TECHNICAL INFORMATION

<b>Tensile Adhesion Strength</b>	Initial Tensile	$\geq 1\text{N/mm}^2$	AS ISO 13007.2-2010
	After water immersion	$\geq 1\text{N/mm}^2$	
	After heat ageing	$\geq 1\text{N/mm}^2$	
	<b>Transverse Deformation:</b> S1 $\geq 2.5\text{mm}$ $> 5\text{mm}$		
<b>Skid / Slip Resistance</b>	$\leq 0.5\text{mm}$		AS ISO 13007.2:2010

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	6 - 6.5 Litres of water per 13.5kg bag		
<b>Consumption</b>	<b>Notched Trowel Size</b>	<b>Approx coverage per bag</b>	
	6 mm	11 m <sup>2</sup>	
	10 mm	6 m <sup>2</sup>	
Consumption is always dependant on the substrate surface profile and roughness, and application technique.			
<b>Ambient Air Temperature</b>	+5°C Min / 38°C Max		
<b>Substrate Temperature</b>	+5°C Min / +35°C Max		
<b>Pot Life</b>	3 hours at 23°C and 50% RH		
<b>Open Time</b>	30 Minutes at 23°C & 50% RH		
<b>Applied Product Ready for Use</b>	<b>USE</b>	<b>WAIT TIME</b>	
	Grouting on Walls	8-10 hours	
	Grouting on Floors	20-24 hours	
	Full Use / Traffic	5-7 Days	
Values determined at laboratory conditions: 23°C, & 50% RH. Higher temperatures will reduce wait times and lower temperatures will increase times.			

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

- Substrate deflection, all substrates under loads must not exceed L/360 for tiles and L/450 for stone.
- 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 products adhesion to the substrate.
- Any small defects in surface level, profile or around exposed aggregates for example, can be prefilled and levelled with an additional layer of Prohesive Lite to a maximum thickness of 10mm, applied at least 24 hours prior to tiles being laid. For larger areas of surface correction use appropriate Sika MonoTop® or Sikafloor® level range should be used. Crack in substrates must be identified, sealed / treated appropriately.
- 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. Early age concrete must be 10 days old and a minimum of 20 MPa.

### 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

\*refer to primer data sheets for additional information

### MIXING

Pour the clean cool water into a mixing container and gradually pour the Prohesive Lite 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 mix. Allow the adhesive to stand (slake) for 5 minutes then restir for an addition minute. Do not add more water. Restirring the adhesive may be required during its 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 adhesive 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 adhesive is still wet.

## LIMITATIONS

- Prohesive Lite cannot be used over particle board, tongue and grooved timber flooring, plywood, medium density fibre board, or masonite.
- Prohesive Lite is not suitable for moisture sensitive stone.
- Mechanical fixing is recommended when fixing externally above 3 meters.
- Prohesive Lite is not suitable to be applied directly over solvent based waterproof membranes.
- The performance of cement based adhesives will be compromised when used above 38°C and under 5°C.
- Efflorescence is beyond the control of the manufacturer.
- Prohesive Lite 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.

**Sika (NZ) Limited**  
85-91 Patiki Road  
Avondale, Auckland 1026  
New Zealand  
0800 745 269  
[www.sika.co.nz](http://www.sika.co.nz)



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