

PRODUCT DATA SHEET

Prohesive Lite

A VERSATILE CEMENT BASED TILE AND STONE ADHESIVE WITH LIGHT WEIGHT TECHNOLOGY

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 & stone by thin-bed application.
- fixing tile & stone by thick-bed application up to 15mm bed thickness.
- Internal and external applications.
- Wall and floor applications.
- Fixing large format tile & stone.
- Use over Sika approved acoustic mats / underlays.
- Use over Sika approved under tile waterproof membranes.
- For use on under tile heating systems.

SUITABLE TILE TYPES ARE;

- Ceramic Tiles
- Porcelain Tiles
- Mosaic Tiles
- Natural Stone (non moisture sensitive)
- Terrazzo Tiles (non moisture sensitive)
- Manufactured Stone (non moisture sensitive)

SUITABLE SUBSTRATES INCLUDE;

- Concrete (Concrete above 35Mpa compressive strength requires mechanical preparation prior)
- Compressed Cement Boards*
- Ceramic Tile Underlay / Fibre cement sheet*
- Masonry substrates
- Sika undertile waterproof membranes including Schonox AB System.
- Gypsum Plaster board - internal only
- Sika approved acoustic underlays & mats

*Refer to board manufacturers strict installation instructions for further details and load limits.

CHARACTERISTICS / ADVANTAGES

- Multi-purpose - walls, floors, internal & external
- Can be applied on early aged screeds
- Excellent coverage up to 30% more than conventional sanded adhesives
- Excellent non slump performance with large format tile and stone
- Light weight technology, smooth easy trowelling
- Flexible S1 performance
- Low VOC

PRODUCT INFORMATION

Product declaration	C2TES1 Class adhesive AS ISO 13007
Composition	Cement, light weight aggregates, polymers and special additives.
Packaging	13.5kg bags / 64 Bags per Pallet
Shelf life	12 months from date of manufacture
Storage conditions	Store off ground in dry cool conditions for maximum shelf life (high humidity will reduce shelf life).
Appearance and colour	White powder

TECHNICAL INFORMATION

Tensile adhesion strength	Test	Result	Requirement	AS ISO 13007
	Initial tensile	≥1.3 N/mm ²	≥1 N/mm ²	
	After water	≥1 N/mm ²	≥1 N/mm ²	
	After heat	≥1.1N /mm ²	≥1 N /mm ²	
Transverse Deformation: S1 ≥2.5mm >5mm				
Skid / slip resistance	≤0.5mm			AS ISO 13007.2:2010

APPLICATION INFORMATION

Mixing ratio	5.5 - 6 Litres of water per 13.5kg bag			
Consumption	Notched Trowel Size	Approx coverage per bag		
	6mm Notched trowel	11m ²		
	10mm Notched trowel	6m ²		
Consumption is always dependant on the substrate surface profile and roughness, and application technique.				
Ambient air temperature	+5°C Min / 35°C Max			
Substrate temperature	+5°C Min / +35°C Max			
Pot Life	3 hours at 23°C and 50% RH			
Open Time	30 Minutes at 23°C & 50% RH			
Applied product ready for use	USE	WAIT TIME		
	Grouting on Walls	8-10 hours		
	Grouting on Floors	20-24 hours		
	Return to wet area service	5 Days		
Values determined at laboratory conditions: 23°C, & 50% RH. Higher temperatures will reduce wait times and lower temperatures will increase wait times.				

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.

IMPORTANT CONSIDERATIONS

- Prohesive Lite cannot be used over particle board, tongue and grooved timber flooring, plywood, medium density fibre board, or Masonite.
- v(name) 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.
- Used above 35°C and under 5°C.
- Efflorescence is beyond the control of the manufacturer due to external influences.
- Prohesive Lite is not suitable for submersed applications.
- Contact Sika Australia for applications not mentioned in this document.

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

- Substrate deflection, all substrates under loads must not exceed L/360 for tiles and L/480 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.
- For tiling wet areas, a suitable Sika under tile water-

proof 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.
- Early aged screeds must be a minimum of 24 hours old at 23°C & 50% relative humidity.

SHEETED / BOARD SUBSTRATES:

- All boards and sheets must be installed as per manufacturer's instructions and specifically designed for tiling.

PRIMING:

- Porous substrates: Eco Prime WB
- Non Porous Substrates: Eco Prep n Prime

Note: 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. Re-stirring the adhesive may be required during its pot life, do not add any 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 appropriately 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 defects. Prime existing tiles with Sika Prep n Prime and allow to dry.

CLEANING OF EQUIPMENT

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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.

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Product Data Sheet

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