

PRODUCT DATA SHEET

PROHESIVE® ECOFLEX

A FLEXIBLE RUBBER MODIFIED, POLYMER FORTIFIED, CEMENT BASED ADHESIVE DESIGNED FOR A VARIETY OF TILING APPLICATIONS

SIKA NZ CTA
APPROVED
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ONLY

DESCRIPTION

PROHESIVE® ECOFLEX is a flexible, rubber modified, polymer fortified, cement based adhesive designed for a variety of tiling applications. PROHESIVE® ECOFLEX has extended coverage and is suitable for internal and external applications.

USES

PROHESIVE® ECOFLEX is suitable for:

- Thin bed application.
- Wall and floor tiling applications
- Internal and external tiling applications

SUITABLE TILE TYPES:

- Ceramic
- Porelain
- Mosaic
- Terracotta
- Quarry

SUITABLE SUBSTRATES:

- Concrete (concrete above 35Mpa requires mechanical preparation prior to fixing)
- Compressed cement boards*
- Ceramic tile underlay / fibre cement boards*
- Masonry
- Sika approved waterproof membranes
- Cement mortar beds / screeds
- Gypsum Plasterboard*

**refer to board manufacturers instructions for further details and load limits.*

CHARACTERISTICS / ADVANTAGES

- Great workability
- Extended coverage
- Flexible S1 performance
- Internal and external use
- Wall and floor use
- Suitable over a variety of substrates
- Low VOC

PRODUCT INFORMATION

Chemical Base	Cement, Rubber crumb, Quartz minerals, Polymers, & special additives.
Packaging	20 kg bags / 64 bags per pallet
Appearance / Colour	Off white powder with rubber crumb.
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).
Product Declaration	C1TES1 Class adhesive AS ISO 13007

TECHNICAL INFORMATION

Tensile Adhesion Strength	Initial tensile	≥ 1 MPa	AS ISO 13007:2013
	After water immersion	≥0.5 MPa	
	After heat ageing	≥0.5 MPa	
Transverse deformation	>2.5mm <5mm		
Slip Resistance	<0.5mm		

APPLICATION INFORMATION

Mixing Ratio	6 - 6.5 litres of water per 20 kg bag		
Consumption	Notched Trowel Size	Approx coverage per Bag	
	6 mm	10.5 m ²	
	10 mm	7 m ²	
Consumption is dependant on surface profile, roughness and application technique.			
Ambient Air Temperature	+5°C Min / +35°C max		
Substrate Temperature	+5°C Min / +35°C Max		
Pot Life	3.5 Hours at 23°C & 50% RH		
Open Time	25 Minitues at 23°C & 50% RH		
Applied Product Ready for Use	USE	WAIT TIME	
	Grouting on walls	6-8 hours	
	Grouting on floors	16-20 Hours	
	Light Foot Traffic	20 hours	
	Full service	4-5 Days	
Values determined at laboratory cconditions: 23°C & 50% RH. Higher temperatures will reduce times and lower temperatures with in-crease times.			

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Substrate deflection, all substrate 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 contaminates such as dirt, dust, oil, grease, curing compounds, crystalline admixtures, release agents, laitance or effloresence.
- 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 contaminates 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.

SHEETED / BOARD SUBSTRATES:

All boards and sheets must be installed as per manu-

facturers instructions and specifically designed for tiling.

PRIMING:

Porous substrates: Eco Prime WB

Non Porous Substrates: Eco Prep n Prime

MIXING

Pour clean cool water into a mixing container and gradually pour the the PROHESIVE® ECOFLEX powder into the container and stir with a slow speed mixing drill (approx 500rpm). Mix for 2-3 minutes to a smooth lump free homogenous consistency. Allow the product to stand (slake) for 5 minutes then restir 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 joints are of uniform width.
- 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 PROHESIVE® ECOFLEX is still wet.

LIMITATIONS

- PROHESIVE® ECOFLEX is not suitable for applications over tongue and grooved timber flooring, plywood, medium density fibre board, or masonite.
- PROHESIVE® ECOFLEX is not suitable for moisture sensitive stone.
- Mechanical fixing is recommended when fixing externally above 3 meters.
- PROHESIVE® ECOFLEX 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.
- PROHESIVE® ECOFLEX 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



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