

PRODUCT DATA SHEET

Sika® Prohesive Ultrapro

A LIGHTWEIGHT, RAPID SETTING, POLYMER FORTIFIED CEMENT BASED ADHESIVE DESIGNED FOR RAPID TILE AND STONE INSTALLATIONS.

DESCRIPTION

Sika® Prohesive Ultrapro is a lightweight, rapid setting, extended coverage polymer fortified cement based adhesive designed for the rapid installation of tile and stone. Sika® Prohesive Ultrapro is high performance and suitable for use on wall and floor substrates both internally and externally.

USES

Sika® Prohesive Ultrapro is suitable for:

- Fixing tile and stone by thin bed application.
- Medium bed applications up to 15mm.
- Wall and floor applications
- Internal and external applications, including submersed

SUITABLE TILE TYPES ARE:

- Ceramic tiles
- Porcelain tiles
- Glass tiles and mosaics
- Mosaics
- Cement pavers
- Natural stone (non-moisture sensitive)
- Manufactured stone (non-moisture sensitive)
- Terracotta

SUITABLE SUBSTRATES INCLUDE:

- Concrete (concrete greater than 35 MPa compressive strength requires mechanical preparation prior to fixing tiles)
 - Compressed cement boards*
 - Ceramic tile underlay / fibre cement boards*
 - Existing tiles (used in conjunction with Eco Systems Prep N Prime)
 - Masonry
 - Sika approved waterproof membranes
 - Cement mortar beds / screeds
 - Gypsum plaster boards
 - Sika approved acoustic underlays / mats
- *refer to board manufacturers instructions for further details and load limits.*

CHARACTERISTICS / ADVANTAGES

- Excellent bond strength
- Non slump, suitable for heavy large format tile and stone
- Flexible S2 performance
- Low VOC
- Internal and external use
- Suitable for applications over early aged mortar beds / screeds
- Extended coverage - up to 30% extra when compared to traditional cement based adhesives
- Non combustable

PRODUCT INFORMATION

Chemical Base	Cement, light weight aggregates, polymers, & special additives
Packaging	13.5 kg bag / 64 bags per pallet
Appearance / Colour	White Powder
Shelf Life	12 Months from date of manufacture.
Storage Conditions	Store above ground in dry cool conditions conditions for maximum shelf life (high humidity will reduce shelf life).
Product Declaration	C2TFS2 Class adhesive AS ISO 13007

TECHNICAL INFORMATION

Tensile Adhesion Strength	Test	Result	Requirement	AS ISO 13007
	Initial tensile	≥1.5 N/mm ²	≥1 N/mm ²	
	After water	≥1.1 N/mm ²	≥1 N/mm ²	
	After heat	≥1.3 N/mm ²	≥1 N/mm ²	
	After 6 hours (F)	≥0.7 N/mm ²	≥0.5 N/mm ²	
Transverse deformation	≥5mm			
Slip Resistance	≤0.5mm			

APPLICATION INFORMATION

Mixing Ratio	5 - 5.5 Litres of water per 13.5kg bag		
Consumption	Notched Trowel Size	Approx Coverage per Bag	
	6 mm	10 m ²	
	10 mm	6 m ²	
Consumption is dependant on substrate 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	45-60 minutes at 23°C & 50% RH		
Open Time	15 minutes at 23°C & 50% RH		
Applied Product Ready for Use	USE	WAIT TIME	
	Grouting on walls	2-3 hours	
	Grouting on floors	3-4 hours	
	Light Foot Traffic	3-4 hours	
	Full service	5 Days	
Values determined at laboratory conditions: 23°C and 50% RH. Higher temperatures with reduce times and lower temperatures will increase times.			

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Substrate deflection, all substrates under loads must not exceed of L/360 for tiles and L/450 for stone applications.
- Substrates must be properly cured, structurally sound, free from loose or friable particles, clean, dry and free from contaminates 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 in surface variations in level, profile or around exposed aggregates for example, can be prefilled and levelled with an additional layer of Prohesive Ultrapro 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. 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 product application, but avoid ponding / standing water on the surface, which must not be damp to touch, ie, it must surface saturated dry (SSD).
- For tiling wet areas, a suitable Sika approved 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 display the "moderate water absorbed" in the substrate test. Wood float and broom finishes are preferred where possible. All traces of curing compounds, sealers, release agents, coatigns, dust, dirt, oil, and any other contaminate that may inhibit the adhesion must be removed prior to tiling.
CEMENT MORTAR BEDS / SCREEDS: Must be installed as per AS ISO 3958.1-2007.
SHEETED SUBSTRATES: All boards / underlays must be installed as per manufacturers instructions and specifically designed for tiling.
PRIMING: Porous substrates: Used Eco Prime WB.
Non Porous substrates: Eco Prep N Prime.

MIXING

Pour cool fresh water into a clean mixing container before slowly adding the adhesive powder. Mix with a slow speed drill (≈ 500 rpm) for approximately 2-3 minutes to achieve a smooth lump free homogenous lump free mixture. Allow the mixture to stand for 5 minutes, then restire for an additional 2 minutes without adding any additional water. Restirring the mixture may be necessary during the potlife.

APPLICATION

- Tiles shall be fixed in accordance with AS3958.1-2007.
- Ensure the backs of the tiles are clean and free from dust and contaminants.
- Apply the adhesive to the substrate with the appropriate sized 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 the notched trowel in a single direction. While pressing the Tile 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 back of the tiles to ensure adequate adhesive coverage is achieved in accordance to the standard.
- Only apply as much adhesive that can be covered by the tiles prior the the adhesive skinning. If skinning occurs prior to placement of tiles remove and replace.
- Remove any excess adhesive from the face of the tiles with a damp sponge and ensure grout joints are clean and free from excess adhesive and 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. Ensure existing tiles are soundly fixed and free from defect. Gloss finished or polished tiles need mechanical preparation prior to priming with Eco Systems Prep n Prime.

CLEANING OF TOOLS

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

LIMITATIONS

- Sika® Prohesive Ultrapro cannot be used directly over tongue and groove timber flooring, particle board, plywood, medium density fibre board, or masonite.
- Sika® Prohesive Ultrapro is not suitable for fixing moisture sensitive tile or stone.
- Sika® Prohesive Ultrapro cannot be used over solvent based polyurethane waterproof membranes.
- Mechanical fixing techniques are required when fixing externally at heights above 2.7 meters high.
- The performance of cement based adhesive 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.

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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