

## 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 & floor substrates both internally and externally.

### USES

Sika® Prohesive Ultrapro  
Is suitable for fixing tile and stone by thin bed application.

Is suitable for medium bed applications up to 15mm.  
Is suitable for wall and floor applications  
Is suitable for internal and external use including submerged

#### SUITABLE TILE TYPES ARE;

Ceramic Tiles  
Porcelain Tiles  
Glass Tiles & Mosaics  
Mosaics  
Cement Pavers  
Natural Stone (non moisture sensitive)  
Manufactured Stone (non moisture sensitive)  
Terracotta

#### SUITABLE SUBSTRATES INCLUDE;

Concrete (concrete greater than 35Mpa 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 & 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

Product declaration	C2TFS2 Class adhesive AS ISO 13007
Composition	Cement, light weight aggregates, polymers, & special additives
Packaging	13.5kg Bag / 64 bags per Pallet
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).
Appearance and colour	White Powder

## TECHNICAL INFORMATION

Transverse deformation	≥5mm			
Tensile adhesion strength	<b>Test</b>	<b>Result</b>	<b>Requirement</b>	AS ISO 13007
	Initial Tensile	≥1.4 N/mm <sup>2</sup>	≥1 N/mm <sup>2</sup>	
	After water	≥1.1 N/mm <sup>2</sup>	≥1 N/mm <sup>2</sup>	
	After heat	≥1.2 N/mm <sup>2</sup>	≥1 N/mm <sup>2</sup>	
Slip resistance	≤0.5mm			

## APPLICATION INFORMATION

Mixing ratio	5 - 5.5 Litres of water per 13.5kg bag		
Consumption	<b>Notched Trowel Size</b>	<b>Approx Coverage per Bag</b>	
	6mm Notched Trowel	10m <sup>2</sup>	
	10mm Notched Trowel	6m <sup>2</sup>	
	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	<b>USE</b>	<b>WAIT TIME</b>	
	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 & 50% RH. Higher temperatures with reduce times and lower trempertures will increase 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

- Sika® Prohesive Ultrapro cannot be used directly over tongue n 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 advise if further information is required.

## ECOLOGY, HEALTH AND SAFETY

Avoid contact with skin and eyes. Wear protective clothing, safety shoes, impervious gloves and safety glasses. Use only in well ventilated areas. No smoking. Avoid contact with foodstuffs, and source of heat and ignition. Wash hand after use. Store in a cool place out of direct sunlight. Store away from oxidising agents. Keep containers closed when not in use. Do not empty into drains. If involved in a fire use water, fog, foam, or dry agents. Avoid breathing products of combustion. Clean up spills immediately. If poisoning occurs, contact a doctor or Poisons Information Centre: Australia - 131126, New Zealand - 0800 033 11 (24/7) for emergency information. Do not reuse container unless thoroughly decontaminated. See Sika Material Safety Data Sheet MSDS for additional information. Contact 1800 0330111 (24/7) for emergency information. If swallowed, do not induce vomiting. Immediately give a glass of water. First Aid is generally not required. If in doubt, contact a Poisons Information Centre or a doctor. Immediate irrigate with copious amount of water for 15 minutes if have come into contact with eyes. Eyelids to be held open. Urgently seek medical advice. If skin contact occurs, flush skin and hair with running water and soap if available. Seek medical attention in the event of irritation. If fumes or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. Seek medical advice if in doubt.

## 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, coatings, 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 (~500rpm) 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 contaminates.

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 to 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 EQUIPMENT**

Tools and equipment can be cleaned with water while the 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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