



BUILDING TRUST



PRODUCT DATA SHEET

Davco Ultraflex Pro

DESCRIPTION

A premium grade, flexible, cement based, rubber modified cement based tile adhesive suitable for a variety of substrates.

USES

Davco Ultraflex Pro is suitable for both thin & thick-bed tiling applications.
Davco Ultraflex Pro is suitable for use internally & externally of both wall and floor substrates.

Suitable substrates include;

- Concrete Minimum 7 days old at 22°C
- Screeds minimum 24 hours old at 22°C
- Fibre cement sheeting
- Compressed cement boards
- Extruded cement boards
- Sika / Davco approved waterproof membranes
- Rendered block or brickwork
- Under-tile heating systems
- Timber floors (sheeted with fibre cement sheeting)

Suitable Tile Types include;

- Ceramic
- Porcelain
- Mosaic
- Slate & Quarry Tiles
- Natural Stone (non moisture sensitive or translucent)
- Terracotta

CHARACTERISTICS / ADVANTAGES

- Commercial grade
- Thick or thin-bed applications
- Low VOC
- Flexible S1 Performance
- Extended open time
- Non slump
- For rigid & flexible (framed) substrates

ENVIRONMENTAL INFORMATION

Low VOC 5g/L (SCAQMD Method 304-91)

PRODUCT INFORMATION

Packaging	20kg Bags / 64 per pallet.
Appearance / Colour	Off white powder with rubber crumb particles.
Shelf life	12 Months from date of manufacture.
Storage conditions	Store in dry cool conditions out of direct sunlight off ground. *High humidity will reduce shelf life.
Product Declaration	C1ES1 AS ISO 13007 Classification.

TECHNICAL INFORMATION

Tensile Adhesion Strength	Test	Ultraflex Pro	AS ISO 13007
	After 28 Days	> 1.0 N/mm ²	
	After heat exposure	> 0.5 N/mm ² < 1.0 N/mm ²	
	After water immersion	> 0.5 N/mm ² < 1.0 N/mm ²	
Transverse deformation	>2.5mm <5mm		

APPLICATION INFORMATION

Mixing Ratio	6-7 Litres of clean potable water per 20kg bag.		
Consumption	A 20kg bag covers approximately 12m ² with a 6mm notch trowel.		
Layer Thickness	Maximum Layer thickness shall be no greater than 10mm.		
Ambient Air Temperature	Min +5°C to Max 35°C		
Substrate Temperature	Min +5°C to Max 35°C		
Pot Life	1.5 Hours		
Open Time	30 Minutes		
Adjustability Time	20 Minutes		
Applied Product Ready for Use	Set time before grouting	6-8 hours	
	Set time before dry area service	24 hours	
	Set time before wet area service	2 days	
	<i>All measurements are taken at 22°C & 50% relative humidity. Specifications vary according to site conditions and should be taken as a guide only.</i>		

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

- Test in an inconspicuous area first.
- Not suitable for direct tiling onto timber floors.
- Not suitable for submerged applications
- Internal & external areas exposed to water require adequate drainage / falls.
- Efflorescence is beyond the control of the manufacturer due to site conditions beyond our control.
- For applications above 3 meters high special fixing techniques are required.
- For uses not mentioned in this document please seek further technical advice from Sika / Davco Australia.

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

EQUIPMENT

Select a trowel with a suitable notch size for the tile size and type as per the following:

Tile Size	Trowel notch size	Back buttering required
Mosaics	4-6mm	No
150x150	6mm	No
200x200	8mm	No
300x300	10mm	No
400x400 and over	12mm	Yes
*Tiles with lugs or uneven backs	*As above dependent on size	Yes
*Translucent tile	*As above dependent on size	

SUBSTRATE QUALITY / PRE-TREATMENT

- Substrate deflection: all substrates under loads shall not exceed L/360 for tiles and L/720 for natural stone.
- All surfaces must be installed according to manufacturers instructions and relevant standards, and be structurally sound, dry clean and free from movement, oil, grease, wax, sealers, curing compounds or other bond inhibiting material. Thoroughly clean old surfaces or new surfaces that have been treated prior to tiling.
- Deeply contaminated surfaces require mechanical preparation. Expose at least 80% of the original sur-

face of painted / coated substrates.

Concrete floors*: Concrete floors shall be a minimum of 6 weeks old. Remove laitance as required. Wood float finished concrete shall be primed with Davco Ultraprime. Steel trowel finished concrete shall be primed with Davco Primex.

Screeds & Mortar Beds: Screeds & mortar beds shall be a minimum 7 days old, sound and not drummy or cracked, with a wood float finish.

Fibre Cement Sheet / Plaster Board: Sheets shall be fixed in accordance with applicable standards and manufacturers recommendations. Prime sheets with Davco Ultraprime or Primex.

Compressed Cement boards: Boards shall be soundly fixed with applicable standards and manufacturers recommendations. Any bond inhibitors shall be removed. Prime boards with Davco Primex.

Timber / Particle Board flooring: Timber substrates shall be sheeting with ceramic tile underlay in accordance with manufacturers recommendations. Prime with Davco Ultraprime.

Existing Tiles: Existing tiles shall be soundly fixed, not drummy or cracked.

Matt Finished tiles shall be primed with Eco Prep n Prime or Davco Ultrabond (refer to tds for additional information).

Gloss or shiny tiles shall be primed with Davco Ultrabond, (refer to tds for additional information).

Other Tile-able Substrates (metal, old flooring, old tile adhesive): Remove all contaminates and bond inhibitors. Prime substrates with Davco Ultrabond (refer to tds for additional information).

MIXING

1. Measure the required amount of clean potable water into a bucket (6-7 Litres per bag).
2. Slowly add the powder into the water while mixing with a mixing paddle attached to a drill (Max 500 RPM). Do not mix by hand.
3. Continue to mix for 2-3 minutes until a smooth, limp free creamy mixture is achieved.
4. Allow the mixture to stand for 5 minutes then restir for an additional minute.

**Adhesive may need re-stirring during the potlife, do not add more water.*

APPLICATION

Laying the Tiles

1. Place the adhesive onto the prepared and primed substrate. Do not apply more adhesive than can be tiles within the open time of the product, usually from a single tile to 1m².
2. Hold the notched trowel at an angle of 60° or greater to the substrate.
3. Spread the adhesive over the required area where

tile is to be applied, comb the adhesive in a single direction (not swirls).

4. Where "back buttering" the tile is required, use the flat side of the notched trowel to apply a thin adhesive layer to the back of the tile (approx 1-2mm thick).
5. Place the tile into the combed adhesive and press the tile firmly.
6. Move the tile forward and then back at 90° across the direction of the combed adhesive to flatten the adhesive to leave no voids under the tile. Occasionally lift a tile to check the adhesive covers 90-100% of the tile.
7. Remove any excess adhesive in the joints, and on the face of the tile with a sponge and water while the adhesive is still wet.
 - Do not allow the adhesive to skin prior to placement of the tiles. If the adhesive skins, remove and re-place.
 - Application shall be in accordance with AS3958.1
 - Movement joints shall be installed in accordance with applicable standards.
 - Back buttering the tiles may be required to achieve minimum coverage requirements.
 - Allow the adhesive to dry prior to grouting.

CLEANING OF TOOLS

Tools & equipment can be cleaned with water prior to the adhesive drying.

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.

Sika Australia Pty Limited

ABN 12 001 342 329

aus.sika.com

Tel: 1300 22 33 48



Product Data Sheet

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