



# Ultraflex



Premium grade wall and floor cement-based tile adhesive



## FEATURES & BENEFITS

- Commercial grade
- For use over early age screed cured for 24 hours
- Rubber modified
- For flexible and rigid substrates
- For use over under-tile heating
- Grey appearance

## PACKAGING

Available in a 20kg bag

## WHERE TO USE

### Surfaces

Most common substrates; cement renders, blockwork and rendered brickwork, plasterboard, fibre cement sheet, compatible waterproofing membranes, timber floors (with fibre cement sheet tile underlay installed), under tile heating, new concrete (cured for 7 days) and new screed (cured for 24 hours).

### Tiles

Ideal for porcelain, ceramic, mosaic, terracotta, slate, quarry, granite and marble. Not suitable for translucent tiles and moisture sensitive stone such as green marble.

### Areas

Suitable for interior and exterior applications. Commercial and domestic walls and floors including living areas, dining areas, walkways, office space, external verandahs and decks.

## PRODUCT INFORMATION

### AS ISO 13007 Classification

C1S1E

### VOC Content

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

### Coverage

20kg bag of Davco Ultraflex covers approximately 12m<sup>2</sup> (based on a 6mm notch trowel)

### Set Time

6-8 hours before grouting



MADE IN AUSTRALIA



## DIRECTIONS FOR USE

- Test product in an inconspicuous area first
- It is essential to plan the area to be tiled, with inclusion of movement joints, in accordance with the Australian Standard AS3958.1 "Guide to the Installation of Ceramic Tiles." Failure to do so may result in drummy or lifting tiles. Make sure normal building or surface movement is accommodated by installing movement joints as follows:
  - Over movement joints in the substrate
  - At a junction between different substrate materials
  - At fixtures interrupting the tile surface e.g. columns
  - At internal vertical corners
  - Around the perimeter of the tiling system
  - At a maximum of 4.5m centres, in a grid pattern
  - Movement joints should be kept free from dirt and adhesive droppings
  - All movement joints can be filled with Davco Elite Silicone or polyurethane type fillers
- Select a trowel with an appropriate square-notch size for the size and type of tile, as per the following:

| TILE SIZE                                       | TROWEL NOTCH SIZE                 | BACK BUTTERING REQUIRED |
|---|-----------------------------------|-------------------------|
| Mosaic tiles                                    | 6mm                               |                         |
| 150 x 150mm                                     | 6mm                               |                         |
| 150 x 150mm and over                            | 10mm                              |                         |
| 400 x 400mm and over                            | 12mm                              | ✓                       |
| Any tile size with uneven back, lugs or grooves | As above dependent upon tile size | ✓                       |

## SURFACE PREPARATION

- All surfaces must be installed according to manufacturer's instructions and relevant Australian Standard(s) and be structurally sound, dry, clean and free from movement, oil, grease, wax, sealers, curing compounds, release agents and any other loose or contaminating material. Thoroughly clean old surfaces, or new surfaces that have been treated, prior to tiling
- Deeply contaminated surfaces must be scabbled / abraded to a clean, sound surface. Expose at least 80% of the original substrate of painted surfaces
- Surfaces should be prepared and primed as per the following:

| SUBSTRATE   | SPECIFIC REQUIREMENTS                                   | PRIMING   |
|---|---|---|
| Concrete - wood float finish (rough)  | Cured minimum 7 days                                    | Prime with Davco PrimeX or Ultraprime                           |
| Concrete - steel trowel finish (smooth)   | Cured minimum 7 days<br>Free of laitance (not flaking)  | Prime with Davco PrimeX   |
| Rendered brick / blockwork - wood float finish (rough)  | Cured minimum 24 hours<br>Sound (not drummy or cracked) | Prime with Davco PrimeX or Ultraprime                           |
| Screed - wood float finish (rough)  | Cured minimum 24 hours<br>Sound (not drummy or cracked) | Prime with Davco PrimeX or Ultraprime                           |
| Fibre cement sheet, plasterboard  | Correctly and firmly fixed                              | Prime with Davco PrimeX or Ultraprime                           |
| Compressed fibre cement sheet   | Correctly and firmly fixed                              | Prime with Davco PrimeX   |
| Timber floor  | Correctly and firmly fixed with ceramic tile underlay   | Prime with Davco PrimeX   |
| Existing ceramic tiles (provided tile is not sealed or in a submerged area, such as swimming pools)     | Securely bonded existing tiles (not drummy)             | Prime with Davco Ultrabond (See Ultrabond Technical Data sheet) |
| Other difficult / non absorbent substrates (e.g. contaminated / old flooring adhesive or tile adhesive) | Where not feasible to remove                            | Prime with Davco Ultrabond                                      |
| Under-tile heating  | Correctly installed with level surface for tiling over  | As appropriate for material                                     |

## MIX PREPARATION

### Mix Process

| SITUATION / REQUIREMENT | MIX REQUIREMENTS PER 20KG    |
|-------------------------|------------------------------|
| General applications    | 6-7L of clean, potable water |

1. Measure the right amount of clean, potable water into a clean bucket.
1. Slowly add the powder into the water while mixing with a mixing paddle attached to a drill. Do not mix by hand.
2. Continue to mix for several minutes until a creamy consistency is achieved, free of lumps of powder.
3. Allow mixture to stand for 5 minutes, remix then use the adhesive.

## APPLICATION

### Laying the Tiles

1. Deposit a quantity of adhesive onto the prepared substrate. Do not apply more adhesive than can be tiled within the open time of the product, usually from a single tile up to around 1m<sup>2</sup> at a time.
2. Hold the notched trowel at an angle of 60° or greater to the substrate.
3. Spread the adhesive over the area where tile is to be applied, forming straight rows of adhesive "beads".
4. Where "back buttering" is required, use the straight side of the trowel to apply a thin covering of adhesive to the back of the tile.
5. Position the tile on the beaded adhesive and press firmly.
6. Move the tile forward and then back at 90° across the direction of the beads to ensure all beads are flattened leaving no voids under the tile. Occasionally lift a tile after placing it to check that the beads are fully compressed and that sufficient coverage has been achieved (90-100%). Replace the tile.
7. After laying a section at a time, remove any excess adhesive from the surface of the tiles and within the grout joint while the adhesive is still wet.

### Clean-up & Return to Service

- Clean tools and equipment with water before the adhesive dries
- Allow product to set before grouting
- Allow product to set firmly before return to service

Note: Setting times of adhesive is affected by site conditions, climate and could be faster or slower than specified

## PRECAUTION

### Safety

- SDS is available from [www.davcoaustralia.com.au](http://www.davcoaustralia.com.au)
- It is recommended that applicators wear PVC or similar gloves and safety goggles while handling this product.
- If eye contact occurs, rinse with cool water
- If ingested get immediate medical assistance
- Keep out of reach of children

### General

- Do not apply in temperatures above 35°C or below 5°C
- In cool and / or humid conditions, allow longer setting times
- Do not allow the adhesive to skin prior to laying the tiles. If the adhesive skins remove and dispose of it, then re-apply fresh adhesive

## Specific

- Not suitable for fixing tiles directly onto timber floors
- Not suitable for submerged areas, such as swimming pools and spas
- Internal and external areas exposed to water require adequate drainage

## TECHNICAL DATA

| TECHNICAL DATA  | ULTRAFLEX         |
|---|-------------------|
| Bond strength in accordance with AS ISO 13007:                  |                   |
| – After 28 days   | > 1.0MPa          |
| – After heat exposure   | > 0.5MPa < 1.0MPa |
| – After immersion in water                                      | > 0.5MPa < 1.0MPa |
| – Transverse deformation  | > 2.5mm < 5mm     |
| Appearance  | Grey powder       |
| Coverage 20kg based on 6mm notch trowel                         | 12m <sup>2</sup>  |
| Open time   | 30 minutes        |
| Adjustment time   | 20 minutes        |
| Pot life  | 1 hour 30 minutes |
| Set time before grouting  | 6-8 hours         |
| Set time before return to wet area service                      | 2 days            |
| Shelf life when stored unopened in elevated, cool, dry location | 12 months         |

All measurements are taken at 22°C and 50% relative humidity. Specifications vary according to site conditions and should be taken as a guide only.

## LEGAL NOTES

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Davco products manufactured in Australia are produced in accordance with quality management systems certified as complying with AS/NZS ISO 9001:2008.

Sika Australia Pty Ltd

55 Elizabeth Street, Wetherill Park NSW 2164 | 1300 22 33 48 | [aus.sika.com](http://aus.sika.com)

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