



**Davco**  
EXCELLENCE IN  
TILING SYSTEMS

TECHNICAL ADVICE LINE: 1800 653 347

EMAIL: [technical@parexdavco.com.au](mailto:technical@parexdavco.com.au)



Australian Standard AS4992

Classification: **C1S1E**

# ULTRAFLEX

Davco Ultraflex is a premium grade, thick or thin bed, off-white, **rubber modified** cement based adhesive. Specifically formulated to adhere a wide range of tiles onto a variety of substrates.

## WHY USE DAVCO ULTRAFLEX?

Ideal for interior & exterior applications ♦ suitable for wall and floor tiles ♦ Ideal for commercial and residential work ♦ Cures in 6-8 hours – can grout the same day ♦ Use over concrete cured in 7 days ♦ Use over screed cured in 24 hours ♦ Suitable to use over undertile heating ♦ Ideal to use over variety of substrates including rigid and flexible building board surfaces ♦ 20kg bag will cover approximately 5-12m<sup>2</sup> depending on the size of the trowel used.

<b>Tile Types</b>	Excellent adhesion properties makes Ultraflex suitable to use on a wide range of tile such as porcelain, ceramic, vitrified, mosaic, terracotta, slate, quarry, granite and marble with the exception of moisture sensitive stone such as green marble.
<b>Substrates</b>	Ideal to use on concrete, new concrete cured in 7 days, new screed cured in 24 hours, cement renders, blockwork, rendered brickwork, existing tiles, plasterboard, fibre cement sheet, compatible waterproofing membranes and over timber floors provided that a fibre cement sheet tile underlay is first installed. Also ideal to use over undertile heating.
<b>VOC Content Test Certificate</b>	<b>Low VOC - Specification for V2 IEQ-13, V1.1 IEQ-11</b>
<b>Excellent Coverage</b>	High coverage – which makes Ultraflex an economical product for the job.
<b>Excellent Pot Life</b>	The mixed mortar remains useable in a container for up to 1hour & 30min at 20°C, prolonging its usefulness, therefore reducing wastage and saving you money.





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CODE	EAN number	DESCRIPTION	SIZE	PALLET QTY
1414520	9312095 001253	ULTRAFLEX	20KG	64

### USES

- Davco ULTRAFLEX can be used on both walls and floors, in interior and exterior applications.
- Davco ULTRAFLEX can be used to fix tiles onto concrete, new concrete cured in 7 days, screed/render cured in 24 hours, blockwork, rendered brickwork, existing ceramic tiles, plasterboard, fibre cement sheeting, existing tiles and compatible waterproofing membranes.
- Davco ULTRAFLEX is also suitable to use over undertile heating.
- Davco ULTRAFLEX is suitable for tiling over timber floors, provided that a fibre cement sheet tile underlay is initially installed over the timber floor.
- Davco ULTRAFLEX is recommended for the thin or thick bed fixing of all types of ceramic, mosaic, fully vitrified, porcelain, terracotta, slate, quarry, granite and marble tiles with the exception of moisture sensitive stone such as green marble.
- When using ULTRAFLEX with translucent tiles the colour of the adhesive must be considered.

### SURFACE PREPARATION

- All surfaces must be structurally sound, dry, clean and free from movement, oil, grease, wax, curing compounds and any other loose or contaminating materials.
- Painted surfaces must be scabbled/abraded to expose at least 80% of the original substrate, or alternately use Davco Ultrabond.
- Newly rendered / screed surfaces must be allowed to cure for at least 24 hours and have a wood float finish.
- All building boards must be firmly fixed according to the manufacturer's instructions and the relevant Australian Standard(s).
- Old rendered / screeded surfaces must be thoroughly cleaned prior to tiling and have a wood float finish.
- New concrete must be allowed to cure for 7 days and should have a wood float finish.
- Steel trowel finished concrete must be mechanically abraded or acid etched prior to tiling.
- Old concrete surfaces must be thoroughly cleaned prior to tiling.
- Make sure all release agents are removed from concrete surfaces, especially on tilt-up slabs.
- Porous / dusty surfaces (including fibre cement and other building boards) must initially be primed using Davco Ultraprime.
- Certain non-absorbent/contaminated surfaces can easily be prepared for tiling via the use of Davco Ultrabond. Refer to Ultrabond's datasheet for further details and suitability.
- Existing ceramic tiles can be tiled over with Ultraflex after the use of Davco Ultrabond. Refer to Ultrabond's datasheet for further details. Ensure the existing tiles are structurally sound, clean, dry and free from oil, grease, wax, curing compounds and any other loose or contaminating materials before using Davco Ultrabond. Tiling over existing tiles is not recommended in immersed applications such as swimming pools etc.
- Suitable for adhering tiles over in floor heating provided that a smooth level surface is first achieved.

### MOVEMENT JOINTS

Movement joints must be installed as stipulated by AS3958 – Guide to the Installation of Ceramic Tiles. Failure to do so may result in drummy or lifting tiles. Movement joints should be provided as follows:

1. Over movement joints in the background.
2. At a junction between different background materials.
3. At fixtures interrupting the tile surface e.g. columns.
4. At internal vertical corners.
5. Around the perimeter of the tiling system.
6. At a maximum of 5 metre intervals in a grid pattern.

**Note:** Movement joints should go right through the tile adhesive bed to the background and be kept free from dirt and adhesive droppings. Movement joints must not be less than 6mm nor greater than 10mm wide. All movement joints that are 6mm wide can be filled with Davco *Sanitized*<sup>®</sup> Colorcaulk. For wider applications use Davco Davsil or polysulphide and polyurethane type fillers.



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## MIXING

- The mixing ratio is 20kg of Davco ULTRAFLEX to approximately 7 litres of clean, potable water.
- Place the water into a bucket and add the ULTRAFLEX while constantly mixing with a drill and paddle. Mix until a thick creamy consistency is achieved.
- Allow the mixture to stand for 5 minutes, remix then use the adhesive.

## APPLICATION

Tiles must be installed as stipulated by AS3958 – Guide to the installation of Ceramic Tiles.

General requirements:

An appropriate amount of adhesive must be used to ensure an adequate bed depth and adhesive coverage.

Suggested trowel sizes:

Tile	Trowel
Wall tiles up to 150 x 150mm.	6mm
Wall / Floor tiles larger than 150 x 150mm	10mm
Large tiles 400 x 400mm or larger	12mm
Mosaic tiles	6mm

- It is required that tiles larger than 400 x 400mm must be back buttered before placement. This is required to ensure adequate adhesive coverage and a better bond.
- Do not exceed the open time of the adhesive (ensure adhesive does not skin before bedding the tile).
- Press tiles firmly into position and make sure that all the tiles are well bedded with no voids in the adhesive.
- Occasionally lift a tile after placing to check that the coverage is adequate (90 – 100% coverage).
- 1m<sup>2</sup> of adhesive may be spread onto an adequately primed surface at any one time.
- Once the tiles have been laid, they must not be disturbed or allow light foot traffic on the tiles for at least 6 hours (at 20°C).

## GROUTING

- Grouting can be carried out 6-8 hours after the tiling.
- Suitable Grouts:

Joint Width	Grout
1 - 3 mm	Davco Sanitized® Superfine Grout
1 – 6 mm	Davco Sanitized® Colorgrout
6 – 12 mm	Davco Slate & Quarry Grout

- Davco 4-in-1 Grout Additive may be used to enhance the colour and increase grout flexibility and water resistance. It should always be used when grouting over fibre cement sheeted floors to minimize the likelihood of the grout cracking or powdering.
- Wait 24 hours after grouting before putting the area into dry service and 3 days for wet service.
- Refer to the appropriate Product Datasheet for more detailed grouting information.

## PRECAUTIONS

- Do not apply in temperatures above 35°C or below 5°C.
- 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.
- Ultraflex is not suitable for fixing tiles directly onto timber floors.
- Ultraflex is not suitable for the tiling of areas where continual immersion occurs i.e. swimming pools, spas, etc.



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- Contact ParexDavco (Australia) Pty Ltd for more advice if considering using in areas or onto surfaces not described in this document.
- Davco ULTRAFLEX contains cement which is alkaline and can cause dermatitis. It is recommended that applicators wear PVC or similar gloves and safety goggles.
- Always read the MSDS before using. Contact ParexDavco (Australia) Pty Ltd or visit the website for copies.

### COVERAGE

A 20kg bag of Davco ULTRAFLEX will cover approximately 7-12m<sup>2</sup> depending on the size of the trowel used.

### CLEAN UP

- Avoid letting excessive adhesive dry as it is easiest to remove when it is fresh.
- Remove wet product with a damp cloth.
- Clean tools and equipment with water.
- If allowed to dry it will need to be removed mechanically or using a suitable acid based product. In some cases these methods can affect the tile and should be avoided whenever possible.

### PACKAGING & SHELF LIFE

Davco ULTRAFLEX is available in 20kg bags. The shelf life is up to 12 months when stored unopened in elevated, cool and dry conditions.

### TECHNICAL DATA

Properties:

Appearance:	Off White Powder
Bulk Density:	~1.4 kg/L
Open Time at 20°C (primed surface):	30 minutes
Adjustment Time at 20°C:	20 minutes
Pot Life at 20°C:	90 minutes
Ready for Grouting:	6-8 hours
Ready for Service at 10°C-20°C:	24 hours
Ready for wet area service:	7 days

### DISCLAIMER

*The use of this product is beyond the manufacturer's control, and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. All workmanship must be carried out in accordance with AS 3958.*

*The information contained herein is to the best of our knowledge true and accurate. No warranty is implied or given as to its completeness or accuracy in describing the performance or suitability of the product for a particular application. Users are asked to check that the literature in their possession is the latest issue.*

**PAREXDAVCO**

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