



# Ceramacrete



A cement-based tile adhesive ideal for rigid substrates



## FEATURES & BENEFITS

- Dustless formula for less mess, less dust and fast clean up
- Spreads easily and evenly
- Use for thin or thick bed tiling
- Colour varies from white to grey

## PACKAGING

Available in 5kg or 20kg bags

## WHERE TO USE

### Surfaces

Most common substrates; fully cured screed (cured for 7 days), rendered brickwork and blockwork and compatible waterproofing membranes.

### Tiles

Ideal for thin or thick bed fixing of ceramic, mosaic, terracotta, slate and quarry tiles. Not suitable for natural stones or green marble.

### Areas

Suitable for interior and exterior applications. Domestic and light duty commercial walls and floors including bathrooms, showers, kitchens, laundries, living rooms, balconies and patios. When mixed with Davco Davelastic, Davco Ceramacrete is suitable for submerged areas such as swimming pools and spas.

## PRODUCT INFORMATION

### AS ISO 13007 Classification

C2S1 (when mixed with Davelastic 1:1 with water)

### VOC Content

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

### Coverage

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

### Set Time

24 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	
200 x 200mm	8mm	
250 x 250mm	10mm	
300 x 300mm	10mm	
400 x 400mm and over	12mm	✓
Any tile size with uneven back, lugs or grooves	As above, dependent upon tile size	✓
Translucent Tile	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 6 weeks	Prime with Davco PrimeX or Ultraprime
Concrete - steel trowel finish (smooth)	Cured minimum 6 weeks Free of laitance (not flaking)	Prime with Davco PrimeX
Rendered brick / blockwork - wood float finish (rough)	Cured minimum 7 days Sound (not drummy or cracked)	Prime with Davco PrimeX or Ultraprime
Screed - wood float finish (rough)	Cured minimum 7 days Sound (not drummy or cracked)	Prime with Davco PrimeX or Ultraprime
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

## MIX PREPARATION

### Mix Process

SITUATION / REQUIREMENT	MIX REQUIREMENTS PER 20KG
General applications	5L of clean, potable water

1. Measure the right amount of clean, potable water into a clean bucket.
2. Slowly add the powder into the water while mixing with a mixing paddle attached to a drill. Do not mix by hand.
3. Continue to mix for several minutes until a creamy consistency is achieved, free of lumps of powder.
4. 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

## PRECAUTIONS

### 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 flexible substrates
- Ceramacrete must be used with diluted Davelastic when tiling submerged areas such as swimming pools and spas
- For other uses not mentioned in these instructions, please contact Sika Australia

## TECHNICAL DATA

TECHNICAL DATA	CERAMACRETE
Appearance	Varies from white to grey powder
Coverage 20kg based on 6mm notch trowel	6m <sup>2</sup>
Pot life	40 minutes
Open time	7 minutes
Adjustment time	15 minutes
Set time before grouting	24 hours
Set time before return to dry area service	24 hours
Set time before return to wet area service	7 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.

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