



BUILDING TRUST



## PRODUCT DATA SHEET

# Davco Ceramacrete

### DESCRIPTION

A cement based tile adhesive for ridged substrates equipped with patented DUST LESS technology that reduces airborne dust by up to 80% in the mixing phase.

### USES

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 flexible framed substrates.

### Suitable tile types include:

- Ceramic,
- Mosaic,
- Terracotta,
- Slate
- Quarry tiles

*Not suitable for Natural stone*

### Suitable substrates include:

- Concrete
- Cement based screeds and renders
- Rendered block or brickwork.

### CHARACTERISTICS / ADVANTAGES

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

### PRODUCT INFORMATION

<b>Packaging</b>	5kg Plastic Bags 20kg Paper Bags
<b>Shelf life</b>	Paper bags: If unopened 12 months from date of manufacture. Plastic film bags: If unopened 18 months from date of manufacture.
<b>Storage conditions</b>	Store in an elevated cool dry location out of direct sunlight.
<b>Volatile organic compound (VOC) content</b>	Low VOC - 5g/L (SCAQMD method 304-91)

### APPLICATION INFORMATION

<b>Mixing Ratio</b>	5kg bag: 1.25 Litre of clean cool water 20Kg bag: 5 Litres of clean cool water For flexible / framed substrates or submerged applications such as pools and spas the water ratio shall be diluted 1:1 with Davco Davelastic additive.
<b>Consumption</b>	A 20Kg Bag with cover approximately 6-7 m <sup>2</sup> with a 6mm notched trowel.
<b>Pot Life</b>	40 Minutes

<b>Open Time</b>	7 minutes	
<b>Adjustability Time</b>	15 Minutes	
<b>Applied Product Ready for Use</b>	<b>Application</b>	<b>Wait time</b>
	Prior to grouting	24 hours
	Return to dry area service	24 hours
	Return to wet area service	7 days
All measurements are taken at 23°C and 50% relative humidity. Specifications vary according to site conditions and should be taken as a guide only		

## 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.

## FURTHER INFORMATION

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 a Sika flexible Sealant.

## IMPORTANT CONSIDERATIONS

- Test product in an inconspicuous area first
- 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
- For flexible substrates use with Davco Davelastic additive.
- Seek Sika written specification for submerged applications such as pools and spas.
- For other uses not mentioned in these instructions, please contact Sika 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

- Personal protective equipment
- Mixing drill with stirrer attachment
- Notched trowel
- Mixing buckets
- **Select a trowel with an appropriate square-notch size for the size and type of tile, as per the following:**

Tile size	Notched trowel size	Back buttering required
Mosaic	4 to 6mm	-
150x150mm	6mm	-
200x200mm	8mm	-
250x250mm	8mm	-
300x300mm	10mm	-
400x400 and larger	12mm	Yes
Tiles with lugs or uneven backs	as above dependent on size	Yes
Translucent tiles	as above dependent on size	Yes

### SUBSTRATE QUALITY

- 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.

## SUBSTRATE PREPARATION

### Priming Guide:

Substrate	Specific requirement	Priming
Concrete - wood float finish	Cured a min 6 weeks	Prime with Davco PrimeX or Ultraprime
Concrete - steel trowel finish (smooth)	Cured min 6 weeks and free of Laitance (not flaking)	Prime with Davco PrimeX
Rendered Brick or blockwork	Cured min 7 days (sound, not drummy or cracked)	Prime with Davco PrimeX or Ultraprime
Screed - wood float finish	Cured min 7 days (sound, not drummy or cracked)	Prime with Davco PrimeX or Ultraprime
Existing ceramic tiles (provided tile is not sealed)	Securely bonded existing tiles (not drummy)	Prime with Davco Ultrabond or Sika Prep n Prime
Other difficult / non absorbent substrates (e.g. contaminated / old flooring adhesive or tile adhesive)	Where not feasible to remove	Prime with Davco Ultrabond or Sika Prep n Prime

Refer to the primer product datasheet for additional information.

### MIXING

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.

Davco Ceramacrete may require to be remixed during its pot life, do not add additional water.

## 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.

- 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

### CLEANING OF TOOLS

- Clean tools and equipment with water before the adhesive dries.

### 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**

**Davco Ceramacrete**

September 2022, Version 01.01

021710102000000416

DavcoCeramacrete-en-AUDAVCO-(09-2022)-1-1.pdf

