



BUILDING TRUST



PRODUCT DATA SHEET

Davco® Ceramaflex

A FLEXIBLE, THIN OR THICK BED, OFF WHITE, RUBBER MODIFIED CEMENT-BASED TILE ADHESIVE

DESCRIPTION

Davco® Ceramaflex is a flexible, thin or thick bed, off white, rubber modified cement-based tile adhesive. Davco® Ceramaflex is designed for wall & floor applications for both internal and external applications.

USES

Davco® Ceramaflex is suitable for thin or thickbed applications both internally and externally.

SUITABLE TILE TYPES ARE;

- Ceramic
- Porcelain
- Mosaic
- Terracotta
- Slate
- Quarry Tiles

SUITABLE SUBSTRATES INCLUDE;

- Concrete
- Cement renders
- Rendered brickwork & blockwork
- Plasterboard
- Fibre cement sheet
- Sika / Davco Approve waterproof membranes
- Screeds & Mortar beds
- Early aged screeds (minimum 24 hours @ 22°C & 50% RH)
- Timber floor (with fibre cement sheet underlay)

CHARACTERISTICS / ADVANTAGES

- Flexible adhesive
- Economical
- Good bond strength
- Off white colour
- Suitable for early aged screeds

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 above ground out of direct sunlight. High humidity will reduce shelf life.
Product Declaration	C1S1E (AS ISO 13007.1)

APPLICATION INFORMATION

Mixing Ratio	7-8 Litres clean potable water per 20kg bag.	
Consumption	A 20kg bags cover approximately 14m ² with a 6mm notch trowel.	
Layer Thickness	Maximum layer 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	
Applied Product Ready for Use	Set time before to grouting	24 hours
	Set time before dry area service	24 hours
	Set time before wet area service	7 days
<i>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.</i>		
Adjustability Time	20 minutes	

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 product in an inconspicuous area first.
- When using Davco® Ceramaflex externally or in wet areas ensure correct drainage and falls exist, so that water does not pond on the tile surface.
- Not suitable for submerged applications.
- Not suitable for fixing tiles directly onto timber floors
- For applications above 3 meter high special fixing techniques are required
- Efflorescence is beyond the control of the manufacturer due to site conditions beyond our control.
- For uses not mentioned in this datasheet seek further 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 latest 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
Mosaic's	4-6mm	
150x150	6mm	
200x200	8mm	Yes
300x300	10mm	Yes
400x400 and over	12mm	Yes
*Tiles with lugs or uneven backs	*as above dependent on size	
Translucent tiles	*as above	

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 surface 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 24 hours old (at 22°C), 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 in accordance 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 pds 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 contaminants and bond inhibitors. Prime substrates with Davco Ultrabond (refer to Ultrabond pds for additional information).

MIXING

1. Measure the required amount of clean potable water into a bucket (8 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 restirring 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.

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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 life 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

Clean tools and equipment with water prior to 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.

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