



# SMP Evo



Flexible, cement-based tile adhesive specifically designed for premium stone, marble and porcelain tiles



## FEATURES & BENEFITS

- Dust Less Technology
- Commercial grade
- Suitable for swimming pools
- For use over under-tile heating
- Very high bond strength
- Non-vertical slump for easy wall tiling
- Non-shrink for a level, even finish
- White formulation ideal for light coloured stone

## PACKAGING

Available in a 5kg or 20kg bag

## WHERE TO USE

### Surfaces

Most common substrates; building boards including plasterboard, compressed and fibre cement sheet, rendered brickwork and blockwork, existing ceramic tiles, new concrete cured in 1 week and new screed cured in 24 hours, compatible waterproofing membranes, timber floors (fibre cement sheet underlay required). Suitable for use over under-tile heating and over Davco acoustic underlay.

### Tiles

Ideal for premium stone, light coloured natural stone, marble and granite with the exception of moisture sensitive stone - use Davco 2-Part Rapid. As well as all common tiles, vitrified porcelain, large format and rectified (square) edge tiles.

### Areas

Commercial and domestic walls and floors including high foot traffic locations, bathrooms, showers, kitchens, laundries, living rooms, balconies, patios, swimming pools and spas.

## PRODUCT INFORMATION

### AS ISO 13007 Classification

C2S1TE (C2S2TE when mixed with Davco Davelastic solution)

### VOC Content

Low VOC - 7g/L (SCAQMD method 304-91)

### Coverage

20kg bag of Davco SMP Evo covers approximately 6-7m<sup>2</sup> (based on a 10mm 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 1 week	Prime with Davco PrimeX or Ultraprime
Concrete - steel trowel finish (smooth)	Cured minimum 1 week Free of laitance (not flaking)	Prime with Davco PrimeX
Rendered brick / blockwork - wood float finish (rough)	Cured minimum 24 hours Sound (not drummy or cracked)	Prime with Davco PrimeX or Ultraprime
Screed - wood float finish (rough)	Cured minimum 24 hours 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). Wet areas, such as within shower recess area, mix Davco SMP Evo with a diluted Davco Davelastic solution	Clean only with sugar soap, no priming needed
Other difficult / non absorbent substrates (e.g. contaminated / old flooring adhesive or tile adhesive)	Where not feasible to remove	Prime with Davco Ultrabond (See Ultrabond Technical Data sheet)
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	5-6L of clean, potable water

1. Measure the right amount of clean, potable water (or diluted Davelastic solution) 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 moisture sensitive stone - use Davco 2-Part Rapid
- For tiling over existing ceramic tiles in wet areas, such as a shower recess, mix Davco SMP Evo with a diluted Davco Davelastic solution
- Do not use for tiling over existing tiles in submerged areas, such as swimming pools and spas

**Important note:** Due to uncontrollable external factors efflorescence is beyond the control of the manufacturer

TECHNICAL DATA	SMP EVO
Bond strength accordance with AS ISO 13007:	
– After 28 days	> 1.0MPa
– After heat exposure	> 1.0MPa
– After water immersion	> 1.0 MPa
– Transverse deformation	> 2.5mm < 5mm
Classification according to solution when mixed with Davco Davelastic	C2S2TE
Appearance	White powder
Coverage 20kg based on 10mm notch trowel	6-7m <sup>2</sup>
Adjustment time	20 minutes
Pot life	1 hour 30 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	2 days
Set time before return to submerged area service	21 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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