



# Powder Mastic



A flexible, cement-based tile adhesive ideal for large format and rectified edge tiles



## FEATURES & BENEFITS

- Commercial grade
- Dust Less Technology
- Non-vertical slump for easy wall tiling
- Use for thick or thin bed tiling
- Extended open time for tiling large areas
- White formulation ideal for light coloured tiles and stone

## PACKAGING

Available in a 20kg bag

## WHERE TO USE

### Surfaces

Most common substrates; building boards including compressed and fibre cement sheet, fully cured concrete, screed (cured for 7 days), rendered brickwork and blockwork, Davco waterproofing membranes and acoustic underlays.

### Tiles

Ideal for large format and rectified (square) edge tiles, porcelain, ceramic, mosaic and marble tiles.

### Areas

Suitable for interior and exterior applications. Commercial and domestic walls and floors including high foot traffic locations, bathrooms, showers, kitchens, laundries, living rooms, balconies and patios.

## PRODUCT INFORMATION

### AS ISO 13007 Classification

C1S1TE

### VOC Content

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

### Coverage

20kg bag of Davco Powder Mastic covers approximately 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 all relevant standard(s)
- 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, 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 24 hours 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
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, free of wax, varnish and paint	Coat with Lanko 184 Flexible Floor Leveller
Other difficult / non absorbent (e.g. metal) / contaminated (e.g. old flooring or tile adhesive)	Where not feasible to remove	Prime with Davco Ultrabond (See Ultrabond Technical Data Sheet)

## MIX PREPARATION

### Mix Process

1. Measure the required amount of clean, potable water into a clean bucket, as per the following:

SITUATION / REQUIREMENT	MIX REQUIREMENTS PER 20KG
General applications	5L - 6L of clean, potable water

2. Slowly add the powder into the water while mixing with a mixing paddle attached to a drill. Always add the powder to the liquid. 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 grout joint and the surface of the tiles with a damp cloth while the adhesive is still wet.

## Clean-up & Return to Service

- Clean tools and equipment with water before the adhesive dries
- Allow product to gain initial 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
- Keep out of reach of children. If eye contact occurs, rinse with cool water

### General

- Movement joints must be installed as stipulated in AS3958, "Guide to the Installation of Ceramic Tiles." Failure to do so may result in drummy or lifting tiles
- 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 tiling over existing ceramic tiles – use Davco SMP Evo
- Not suitable for moisture sensitive stone – use Davco 2 Part Rapid
- For other uses not mentioned in these instructions, please visit [www.davcoaustralia.com.au](http://www.davcoaustralia.com.au)

TECHNICAL DATA	POWDER MASTIC
Classification according to AS ISO 13007	C1S1TE
Bond strength in accordance with AS ISO 13007 (MPa):	
– After 28 days	>1.0
– After heat exposure	>0.5 <1.0
– After immersion in water	>0.5 <1.0
– Transverse deformation	>2.5 <5mm
Appearance	White powder
Coverage 20kg bag based on a 10mm notch trowel	7m <sup>2</sup>
Pot life	2 hours
Open time	30 minutes
Adjustment time	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	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.



Davco products manufactured in Australia are produced in accordance with quality management systems certified as complying with AS/NZS ISO 9001:2008.