



BUILDING TRUST



## PRODUCT DATA SHEET

# Davco APA All Purpose Adhesive

An All Purpose Adhesive (APA) formulated with non-horizontal slump, excellent for large format tiles.

### DESCRIPTION

An economical grade all purpose adhesive for thin-bed tile and stone applications.

### USES

Davco APA All Purpose Adhesive is suitable for thin bed applications internally & externally on both wall and floor surfaces.

#### Suitable substrates include;

- Concrete minimum 6 weeks old
- Screeds minimum 7 days old
- Fibre cement sheet
- Compressed cement boards
- Rendered block & brickwork
- Sika / Davco approved waterproof membranes
- Undertile heating (when mixed with Davco Davelastic additive)

#### Suitable Tile Types include;

- Ceramic
- Porcelain
- Mosaic
- Natural stone
- Not suitable for translucent tiles and moisture sensitive stone

### CHARACTERISTICS / ADVANTAGES

- Economical
- Off white colour
- Good bond strength
- Low VOC
- Multi-purpose
- Excellent coverage

### ENVIRONMENTAL INFORMATION

Low VOC 4g/L (SCAQMD Method - 304-91)

### PRODUCT INFORMATION

<b>Packaging</b>	20kg bags / 64 bags per pallet.
<b>Shelf life</b>	12 Months from date of manufacture.
<b>Storage conditions</b>	Store in dry cool conditions, out of direct sunlight off ground. <i>High humidity will reduce shelf life.</i>
<b>Appearance / Colour</b>	Off white powder.

### APPLICATION INFORMATION

<b>Mixing Ratio</b>	5-6 Litres of clean potable water per 20kg bag.
<b>Consumption</b>	A 20kg bag will cover approximate 6m <sup>2</sup> with a 10mm notch trowel.

<b>Layer Thickness</b>	Maximum layer thickness shall be no greater than 6mm.	
<b>Ambient Air Temperature</b>	Min +5° to Max 35°C	
<b>Substrate Temperature</b>	Min +5° to Max 35°C	
<b>Pot Life</b>	2 Hours.	
<b>Open Time</b>	30 Minutes.	
<b>Adjustability Time</b>	45 Minutes.	
<b>Applied Product Ready for Use</b>	Set time before grouting	24 hours
	Set time before dry area service	24 hours
	Set time before wet area service	2 days

*All measurements are taken at 22°C & 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.

## IMPORTANT CONSIDERATIONS

- Test product in an inconspicuous area first.
- Not suitable for moisture sensitive stone.
- Not suitable for applications above 3 meters externally.
- Not suitable for submerged applications.
- Efflorescence is beyond the control of the manufacturer due to site conditions beyond our control.
- For uses not mentioned in the document please seek further technical advice from Sika Australia

## ECOLOGY, HEALTH AND SAFETY

For information about 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
Mosaics	4-6mm	No
150x150	6mm	No
200x200	8mm	No
300x300	10mm	No
400x400 and over	12mm	Yes
*Tiles with lugs or uneven backs	*As above dependent on size	Yes

### 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 Ultraprime or Primex.

**Screeds & Mortar Beds:** Screeds & mortar beds shall be a minimum 7 days old, sound and not drummy or cracked, with a wood float finish. Prime screeds with Davco Ultraprime or Primex.

**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 to applicable standards and manufacturers recommendations. Any bond inhibitors shall be removed. Prime boards with Davco Primex.

### MIXING

1. Measure the required amount of clean potable water into a bucket (5 - 5.5 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 re-stir for an additional minute.

For applications over flexible substrates Davco APA All Purpose Adhesive shall be mixed with 1:1 Davelastic additive & water

*\*Adhesive may need re-stirring 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 1m<sup>2</sup>.
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.
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 lift 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

Tools & equipment can be cleaned with water prior to the 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.

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### Product Data Sheet

Davco APA All Purpose Adhesive

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## 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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