



DAVCOFLEX

DESCRIPTION

Davcoflex is a two part, flexible, thick or thin bed, tile adhesive, designed to withstand normal vibration/movement in the substrate, where conventional adhesives set too rigid.

USES

- Davcoflex can be used on both walls and floors, in interior and exterior applications.
- Davcoflex may be used to fix tiles onto plasterboard, fibre cement sheeting, timber floorboards, structural composition board or marine grade ply, concrete, cement renders/screeds, brickwork, blockwork, old ceramic tiles and particular waterproofing membranes.
- For treated timbers, hardwood timbers or timbers which exude resins/tannins, initially install a fibre cement sheet tile underlay.
- Davcoflex is recommended for the thin or thick bed fixing of all types of ceramic, mosaic, fully vitrified, porcelain, terracotta, slate, quarry, granite and marble tiles with the exception of light coloured or green marble.
- When using Davcoflex with translucent/ absorbent tiles, the colour of the adhesive must be considered, so as to avoid discolouration problems.

FEATURES & BENEFITS

- Two-part flexible adhesive designed especially for tiling onto resilient surfaces such as fibre cement sheeting, gyprock plaster and particular timber substrates.
- Water resistant bond
- Will absorb vibration and reduce sound transmission
- Will accommodate movement within the substrate
- Can be used for interior and exterior applications
- Adheres well to most waterproofing membranes

SURFACE PREPARATION

- All surfaces must be structurally sound, dry, clean and free from movement, oil, grease, wax, curing compounds and any other loose or contaminating materials.
- All building boards must be flat and firmly fixed according to the manufacturer's instructions and relevant Australian Standard(s).
- In particular, for floor tiling applications over timber frame constructions the load deflection/deformation in the substrate must not exceed 1/360 of the span.

- Painted surfaces must be scabbled/abraded to expose at least 80% of the original substrate.
- Newly rendered/screeded surfaces must be allowed to cure for at least 7 days and have a wood float finish.
- Old rendered/screeded surfaces must be thoroughly cleaned prior to tiling and have a wood float finish.
- New concrete must be allowed to cure for 6 weeks and should have a wood float finish.
- Steel trowel finished concrete must be acid etched or mechanically abraded prior to tiling.
- Old concrete surfaces must be thoroughly cleaned prior to tiling.
- Make sure all release agents are removed from concrete surfaces, especially on tilt-up slabs.
- Old ceramic tiles must be sound/securely fixed and at least 80% of the tile's surface be abraded, via mechanical means.
- **Timber substrates must be sanded and then primed using Davco Ultraprime.** Ultraprime contains an ultra violet light reflector, making it easy to identify if the primer has been used.
- Certain non-absorbent/contaminated surfaces can easily be prepared for tiling via the use of Davco Ultrabond. Refer to the Ultrabond data sheet for further details and suitability.

Movement joints should be provided as follows:

1. Over movement joints in the background.
2. At a junction between different background materials
3. At fixtures interrupting the tile surface e.g. columns.
4. At internal vertical corners.
5. Around the perimeter of the tiling system.
6. At a maximum of 5 metre intervals in a grid pattern.

Note: Movement joints should go right through the tile adhesive bed to the background and be kept free from dirt and adhesive droppings. Movement joints must not be less than 6mm nor greater than 10mm wide. All movement joints that are 6mm wide can be filled with Davco *Sanitized*® Colorcaulk. For wider applications use Davco Dawsil or polysulphide and polyurethane type fillers.

MIXING

- Davcoflex is a two-part adhesive for on-site mixing.
- The mixing ratio by volume is 3 parts powder to 2 parts liquid.
- Therefore for a 25kg/20lt unit the mixing ratio is 25kg of Davcoflex powder to 20lt of Davcoflex liquid. This may vary slightly due to workability and temperature variation.
- Add the powder slowly into the liquid while mechanically stirring to ensure a uniform mix results.



DAVCOFLEX

- Allow the mixture to stand for 10 minutes, remix, then use the adhesive.

APPLICATION

- Spread the adhesive onto the substrate using a 6mm x 6mm notched trowel for the installation of wall tiles up to 150mm x 150mm.
- For the installation of floor tiles or wall tiles larger than 150mm x 150mm use a 10mm x 10mm to a 12mm x 12mm notched trowel.
- Use a 12mm x 12mm notched trowel for tiling on/over all timber frame construction floors, except when dealing with mosaic tiles.
- A 6mm x 6mm notched trowel can be used to lay mosaic tiles.
- Tiles with lugs, grooves or an uneven back, must initially be butter coated with the adhesive, in addition to the adhesive being trowelled onto the substrate.
- For wall tiling a minimum final bed thickness of 2mm is recommended, whilst for floor tiling a minimum final bed thickness of 3mm is recommended, except on/over timber or fibre cement sheet type floors where a minimum of 4mm is recommended.
- Do not spread more than 1m² of adhesive at any one time.
- Press tiles firmly into position before the adhesive skins, ensuring that all the tiles are well bedded and that no voids occur under the tiles.
- Occasionally, in order to ensure that full coverage is being maintained, a tile should be removed, the adhesive coverage noted and the tile be relaid accordingly.
- Once the tiles have been laid, they must not be disturbed or trafficked upon for 24 hours at 20°C.

GROUTING

- Grouting can be carried out 24 hours after the completion of tiling.
- Use the Davco grout that best suits the tiling installation. Refer to the Davco Adhesive and Grout Selection Guide for further information.
- To enhance colour, increase water resistance and flexibility of the grout, use Davco Grout Additive. This is particularly recommended when grouting over timber or fibre cement sheeted floors, to minimise the likelihood of the grout cracking/powdering.
- Allow 24 hours after grouting before putting the area into service.

PRECAUTIONS

- Do not apply Davcoflex in temperatures above 40°C or below 5°C.
- 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.
- When using Davcoflex externally or in wet areas ensure adequate drainage exists, so that water does not pond on the tile surface.
- Do not use Davcoflex for the tiling of areas where continual immersion occurs i.e. swimming pools, spas, etc.
- Davcoflex is not suitable for installations that will experience heavy traffic or high point loads.
- Davcoflex is unable to absorb deflection/deformation that exceeds 1/360 of the span i.e. for timber joists which are at 450mm centres the substrate must not deflect/deform more than 1.2mm.
- Davcoflex will take longer to cure when applied over surfaces with low porosity or when used in conjunction with tiles that have low porosity.
- For other uses or the use of Davcoflex over substrates/situations not mentioned in these instructions, contact your ParexDavco (Australia) Pty Ltd state office.
- Being cement based, Davcoflex is alkali in nature, which can cause dermatitis. Thus when using Davcoflex it is recommended that applicators wear PVC or similar gloves and safety goggles.
- For a full MSDS on this product, contact your ParexDavco (Australia) Pty Ltd state office.

COVERAGE

A 25kg/20lt unit of mixed Davcoflex will cover approximately 12m² using a 12mm x 12mm notched trowel, approximately 15m² using a 10mm x 10mm notched trowel and approximately 24m² using a 6mm x 6mm notched trowel.

CLEAN UP

- Remove any excess adhesive from the face of the tiles with a damp cloth, while the adhesive is still wet.
- Clean tools and equipment with water before the adhesive dries.

PACKAGING



DAVCOFLEX

Davcoflex is available in:

- 2lt containers /2.5kg bags
- 4lt containers /5kg bag bags
- 10lt containers /12.5kg bags
- 20lt containers /25kg bags

SHELF LIFE

Davcoflex has a shelf life of up to 12 months in unopened containers and bags, stored in a cool, dry elevated place.

TECHNICAL DATA

Properties:

Appearance:	Grey paste
Specific Gravity of Mix:	-1.2kg/litre
Pot Life at 20°C:	3 Hours
Open Time at 20°C:	10 mins
Adjustment Time at 20°C:	20 mins
Curing Time at 20°C:	24 hours

DISCLAIMER

The use of this product is beyond the manufacturer's control, and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. All workmanship must be carried out in accordance with AS 3958.1 - 1991.

The information contained herein is to the best of our knowledge true and accurate. No warranty is implied or given as to its completeness or accuracy in describing the performance or suitability of the product for a particular application. Users are asked to check that the literature in their possession is the latest issue.

PAREXDAVCO

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