



# Davco

# DAVCO PORCELAIN FLEXIBOND 600

## THICK / THIN BED CEMENT BASED TILES ADHESIVE WITH NON-SLUMP PROPERTY



ECO FRIENDLY



LOW CARBON FOOTPRINT



EASE OF USE

### TECHNICAL DATA

Conforms with EN 12004

- |                                 |                                |
|---------------------------------|--------------------------------|
| • Appearance                    | : Grey Powder                  |
| • Specific Gravity              | : $1.5 \pm 0.1$ kg/litre       |
| • Tensile adhesion strength     | : $\geq 1.0$ N/mm <sup>2</sup> |
| • Bonding after water immersion | : $\geq 1.0$ N/mm <sup>2</sup> |
| • Bonding after heat aging      | : $\geq 1.0$ N/mm <sup>2</sup> |
| • Working time (25°C)           | : Approx. 15 minutes           |
| • Curing time (25°C)            | : 24 hours                     |
| • Open time                     | : Approx. 30 minutes           |

Specifications are subjected to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on the type of tile/stone used, installation methods and site conditions.

### SURFACE PREPARATION

- All surfaces must be structurally sound, dry, clean and free from movement, oil, grease, wax, curing compound and any other loose or contaminating materials.
- Expansion joints coinciding with joints in the substrate should be incorporated at the design stage at a maximum of 5m spacing and must be tiled over.
- Movement joints must be incorporated where necessary in accordance with the general principles incorporated within the BS 5385: Part 1-4.
- Dusty concrete or masonry should be swept clean and dampened with water prior to the application of mortar.
- Painted surface must be scabbled / abraded to expose at least 80% of the original substrate. Newly rendered / screeded surface must be thoroughly cleaned prior to tiling and have a wood float finish.
- Old rendered / screeded surface must be thoroughly cleaned prior to tiling and have a wood float finish.
- New concrete must be allowed to cure for 6 weeks and have a wood float finish. Steel trowel finished concrete must be acid etched or mechanically abraded prior to tiling.
- Old concrete surface must be thoroughly cleaned prior to tiling. Make sure all release agents are removed from concrete surfaces, especially on tilt-up slabs.



### ADVANTAGES

- Good workability
- Suitable for all tiles, including non-porous tiles
- Enhanced adhesion of low-porosity tiles
- Suitable for fixing tiles onto various substrate
- No soaking of tiles required

### DESCRIPTION

**Davco Porcelain Flexibond 600** is a premium grade thick / thin bed grey cement-based tile adhesives with non-slump property. It is formulated to provide superior coverage, smoother / easier application and longer open time with extra high bond strength for fixing tiles onto various substrates.

### USES

- For both walls and floors in interior and exterior application
- Concrete, cement renders/screeds, block work, rendered brickwork and particular waterproofing membranes
- For patching / levelling out imperfections on the concrete, render, or screed surfaces
- For thin or thick bed fixing of all type of ceramic, mosaic, vitrified, porcelain, terracotta, slate, quarry, granite and marble tiles – with the exception of green marbles



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## SURFACE PREPARATION (cont/-)

• Screeds should be allowed to dry out as slowly as practicable after curing to reduce the risk of curling. Cement and sand and fine concrete levelling screeds should be cured for at least 7 days and be subjected to continuous air drying after curing for at least 2 weeks before the tiling is applied. Please refer to BS 5385 or MS 1294.

• To ensure screed/render level is plumb to achieve optimum adhesive bed thickness.

• Certain non-absorbent/contaminated surfaces can easily be prepared for tiling via use of Davco Bonding Agent. Refer to Davco Bonding Agent data sheet for further details and suitability.

Note: Do not soak ceramic tiles. Porcelain tiles with too much of release powders at back of tiles must be washed and clean well. Skim the back of the tiles to ensure optimum coverage. Prior to installation for external tiling, protect from direct hot sun and rain by means of shelter. It is the user's responsibility to determine the condition and suitability of all surfaces prior to application.

## MIXING PROPORTION

Davco Porcelain Flexibond 600 : 25kg  
Clean water : 6 – 7 litres

- Add water into a mixing container. Then, add Davco Porcelain Flexibond 600.
- Mix continuously in circular motion using low-speed mechanical mixer until lump-free, creamy consistency and uniform paste is achieved.
- Allow the mix to stand for 5 minutes and remix prior to use. Mix lasts approximately 1-2 hours depending on the temperature.

## APPLICATION

• Spread the adhesive onto the substrate using proper and suitable notched trowel. The choice of trowel should be governed by the size of the tiles, depth of knobs, grooves or ridges on the back of the tiles and the evenness of the substrate.

• Use the flat side of the notched trowel to spread the mix onto the receiving surface at approximately 1m<sup>2</sup> at a time. Then, use the notched side of the trowel to apply the required amount of the mix in one direction.

• Press the tile in perpendicular motion and tapped into position to ensure positive contact with the adhesive and adjust within 30 minutes.

• For tile with grooves or ridges, it may be necessary to apply a layer of adhesive / butter coat at the back of the tiles. This is to ensure dual bonding and better coverage between the adhesive and tile so that proper adhesion and support occurs.

• Ensure that the adhesive is wet when the tiles are laid. Do not allow the adhesive to skin over prior to tiling. Should a skin have formed, break the skin by re-trowelling the adhesive in opposite direction.

## APPLICATION (cont/-)

• Do not spread more than 1m<sup>2</sup> at a time. Fix tiles within 20 minutes of applying adhesive and check contact by occasionally lifting tiles.

• Ensure there are no voids under the tiles and leave adequate wall & floor joints.

IMPORTANT: Due to atmospheric condition, the skin-over of the adhesive will occur after 5 – 10 minutes, therefore special attention have to be taken. It is important that adhesive is applied in a small area that can be covered with tiles within this period of time.

[NOTE: Skin over can be checked by placing the tip of your index finger lightly to the adhesive bed surface. If the adhesive does not stick to your finger, skin over has already occurred. To break the skin, re-trowel in opposite direction. Fix stone, ceramic glazed tiles, ceramic vitrified tiles, mosaic within 15 minutes of applying adhesive and check coverage by occasionally lifting the stone / ceramic glazed tiles / ceramic vitrified tiles / mosaic.]

## CLEANING

Tile adhesive and tools can be cleaned with water while the adhesive is still wet. Hardened material can be removed mechanically.

## GROUTING

- Grouting should preferably be carried out at least 24 hours after completion of tiling or until the adhesive has set and dry sufficiently.
- Setting may be delayed on dense or impervious surface.

## APPROXIMATE COVERAGE

- 3mm x 3mm notched trowel : Avg. 2.0 – 3.0 kg/m<sup>2</sup>
- 6mm x 6mm notched trowel : Avg. 5.0 – 5.5 kg/m<sup>2</sup>
- 12mm x 12mm notched trowel : Avg. 10.0 – 11.0 kg/m<sup>2</sup>

Note:

Trowel Size	Tile size
4mm x 4mm	Mosaic
10mm x 10mm	300mm x 300mm & below
12mm x 12mm	600mm x 600mm & below
20mm x 20mm	600mm x 600 & above

## PACKAGING

Available in 25kg bags

## SHELF LIFE

Shelf life of up to twelve (12) months in an unopened bag stored in cool, dry elevated place

## HEALTH & SAFETY

This product contains cement which may cause dermatitis. It is recommended to use protective gloves and goggles during handling. If skin irritation occurs, seek medical attention promptly. Wash thoroughly after handling. Do not eat or drink when using this product. Ensure use in outdoor or in a well-ventilated area. For further and complete information about the safe use of our product please refer to our Safety Data Sheet.

## 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. Specifications are subjected to changes without prior notice. Before application, customers and users are requested to check that they have the latest version of product technical data from our website [www.parexgroup.com.my](http://www.parexgroup.com.my).

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