



TTB ECO

ENVIRONMENTALLY FRIENDLY CEMENT BASED TILE ADHESIVE

Classification: BS EN 12004 : 2007 + A1 : 2012



ECO FRIENDLY



**LOW CARBON
FOOTPRINT**



EASE OF USE

DESCRIPTION

Davco TTB ECO is an environmentally friendly thick and thin bed tile adhesive which is formulated with recycled material and is approved by the Eco-labelling authority in Singapore as a Sustainable building material.

Davco TTB ECO is ideal for fixing ceramic, tiles, slates, marbles and natural stones to interior and exterior walls and floors.

Davco TTB ECO is classified as C1 when tested to BS EN 12004 : 2007 + A1 : 2012.

USES

Use to lay tiles, marbles / natural stones onto concrete, render, blockwork and rendered brickwork surfaces.

Can be used on walls and floors in both interior and exterior applications.

Use with Davco Mortaflex ECO when fixing dense tiles such as vitrified porcelain and fixing marble and granite, to obtain high bond strength and superior performance.

Use with Davco Mortaflex ECO in areas of heavy movement.

ADVANTAGES

Water resistant, can be used to lay tiles in wet areas such as shower floors etc.

Environmentally friendly and non-toxic.

Approved by Singapore Eco-labelling authorities.

TECHNICAL DATA

Appearance	Grey or White powder
Density	1.5 kg / litre
Cure Time (28°C)	24 hours
Tensile Adhesion Bond Strength BS EN 1348 : 2007	≥ 0.5N/mm ²
- After water immersion	≥ 0.5N/mm ²
- After heat ageing	≥ 0.5N/mm ²
Open Time @ 25°C	Up to 20 minutes
Pot life at 28°C	60 minutes

Specifications are subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

SURFACE PREPARATION

All surface must be structurally sound, dry, clean and free from movement, oil, grease, wax and other contaminants.

Painted surfaces must be scabbled / abraded to expose at least 75% of clean surface. Expansion joints coinciding with joints in the substrate should be incorporated at the design stage at a maximum of 5 metre spacings and must not be tiled over. Movement joints that are 6mm wide can be filled with Davco Sanitized® Colorfiller 80.

Newly rendered surfaces must be allowed to cure for at least 7 days. Very porous surfaces should be primed with Davco 124 Ultraprime or Davco Acrylic Primer. Steel trowel finished concrete must be acid-etched or wire brushed prior to tiling.



BUILDING TRUST





TTB ECO

Mixing

Add Davco TTB ECO to liquid component, mixing continuously until a lump-free, creamy consistency is achieved.

Mixing ratio is 25kg of Davco TTB ECO to approximately 5.5 - 6.25 litres of liquid.

Allow the mixture to stand for 5 - 10 minutes, and remixed before use.

Application

Spread the adhesive onto the substrate using either a 6mm x 6mm to 12mm x 12mm notched trowel for wall tiling, or a 12mm x 12mm to 20mm x 20mm notched trowel for floor tiling. The choice of the 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.

A 6mm x 6mm notched trowel is recommended for mosaic tiles.

Thicker bed of adhesive allow for better contact to the substrate as well as picking up unevenness especially in the case of slates.

Spread approximately 1.2 - 1.5m² of adhesive at a time. Ensure that the adhesive is wet when the tiles are laid and tapped into position to ensure positive contact with the adhesive.

Ensure that there are no voids under the tiles.

Do not allow the adhesive to skin over prior to tiling.

It is important to butter coat the back of the tiles to improve adhesion and avoid hollowness especially for large format tiles and tiles with grooves and ridges.

In cases where the tile has no or very low water absorption rate, or where the the back of tile has been pre-coated with an impervious film that may cause debonding, an adhesion promoter/primer e.g. Davco T Prime can be applied.

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Grouting after tile installation

Grouting should preferably be carried out at least 24 hours after the completion of tiling.

For grout joints up to 4mm wide use Davco Sanitized® Coloured Grout ECO (CFG).

For grout joints above 4mm wide use Davco Sanitized® Colorfiller 80.

COVERAGE

Coverage varies according to surface conditions and the build up required. The following can be used as an approximate guide:-

- Using a 6mm x 6mm notched trowel - approx 3.5 kg/m².
- Using a 12mm x 12mm notched trowel - approx 7.0 kg/m².
- Using a 20mm x 20mm notched trowel - approx 11.9 kg/m².

PACKAGING

Available in 25kg.

SHELF LIFE

Shelf life up to 12 months in unopened bags when stored in an elevated cool dry 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. Refer to 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 this document from our website www.sika.com.sg



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