



ULTRAFLEX

FLEXIBLE CEMENT BASED ADHESIVE

Classification: C2S2TE (BS EN 12004 : 2007)



ECO FRIENDLY



LOW CARBON
FOOTPRINT



EASE OF USE

DESCRIPTION

Davco Ultraflex is a premium grade bed, polymer modified, flexible cement based adhesive, specifically formulated to bond tiles onto a wide variety of substrates.

It is suitable for tiling of natural stone and tiles to facades, terrace and balconies.

Davco Ultraflex is classified as C2S2TE when tested to BS EN 12004:2007.

USES

Davco Ultraflex is formulated with anti-slip properties and can be used on both walls and floors in interior and exterior applications.

It is recommended for the thin bed fixing of all types of tiles, with the exception of green marble.

When using Davco Ultraflex with translucent tiles, the colour of the adhesive must be considered.

Can be used to lay tiles onto concrete, cement render, drywall, plasterboard, fibrous cement sheeting, and particular waterproofing membranes. For metal substrates, please refer to technical personnel for recommendation.

Suitable for tiling over timber floors, provided that a fibrous cement sheet underlay is installed.

ADVANTAGES

Permanently flexible, allowing it to be used over substrates that are subject to minor vibration and thermal movement.

Highly water resistant making it ideal for bonding on submerged substrate such as ponds, tanks and swimming pools.

Its high bonding performance and deformability makes it an extremely versatile product, enabling the bonding of reduced porosity natural stone or tiles to new or old substrates.

TECHNICAL DATA

Appearance	Off white & grey powder
Specific Gravity	1.4 +/- 0.1kg / litre
Adjustment Time at 20°C	~ 15 minutes

TECHNICAL DATA (CON'T)

Tensile Adhesion Bond Strength BS EN 12004-2 : 2017	28 days	2.8 MPa
Tensile Adhesion Bond Strength (After water immersion) BS EN 12004-2 : 2017		1.2 MPa
Tensile Adhesion Bond Strength (After heat ageing) BS EN 12004-2 : 2017		2.5 MPa
Open time @ 25°C		≥ 30 minutes
Transverse Deformation BS EN 12004-2 : 2017		5.4 (minimum)
Pot life at 20°C		Approx. 1.5 hours

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, curing compounds and other loose or contaminating materials.

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.

All surfaces, particularly porous surfaces should initially be primed/sealed using Davco 124 Ultraprimer or Davco Acrylic Primer.



BUILDING TRUST





ULTRAFLEX

SURFACE PREPARATION (CON'T)

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 a wall or floor tiling system.
6. At a maximum of 5 metre intervals in a grid pattern.

Note: Movement joints should go right through the tile and adhesive bed to the background, and be kept free from dirt and adhesive droppings. Movement joints should not be more than 6mm wide nor greater than 10mm wide. For wider applications use a polysulphide or polyurethane filler.

MIXING

Add Davco Ultraflex to a bucket of clean water mixing constantly until a thick creamy consistency is achieved.

The mixing ratio is 25kg of Davco Ultraflex to approximately 5.5 - 6.0 litres of water.

Allow the mixture to stand for 5 - 10 minutes, and remix 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.

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

For dual bonding, follow the above-mentioned instructions, after buttering the underside of the tile.

Ensure 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,

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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.

Grouting after tile installation

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

Pour clean water, or if any movement is anticipated, Davco Mortaflex ECO in a clean mixing bucket.

Slowly add the grout powder, stirring continuously until a lump-free, toothpaste consistency is achieved.

Using a rubber float or squeegee, work the grout paste deep into the joints, making sure the grout is not just sitting on top.

Remove excess grout from the surface of the tiles with the float or squeegee using a diagonal motion to avoid dislodging the embedded grout.

A primary clean up should be done by wiping with a damp cloth or sponge.

To enhance the colour and increase the grout's flexibility and water resistance, use Davco Mortaflex ECO in place of water.

COVERAGE

A 25 kg bag of Davco Ultraflex will cover approximately 6.0 - 6.75m² using a 6mm x 6mm notched trowel.

PACKAGING

25kg bag.

SHELF LIFE

Shelf life of up to 12 months in unopened bags, when stored in an elevated, cool dry position.

CLEANING

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

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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