



BUILDING TRUST



## PRODUCT DATA SHEET

# Davco TTB 96

Ceramic tile/stone adhesives - floor and wall thin bed mortar

### DESCRIPTION

Davco TTB 96 is a thin bed cementitious tile adhesive suitable for fixing ceramic glazed tiles or other porous tiles to internal and external area.

### USES

Installation of dimensional stones and ceramic tiles over a wide variety of substrates

### CHARACTERISTICS / ADVANTAGES

- Easy Installation
- Good workability
- Good adhesion
- User friendly

### PRODUCT INFORMATION

|                           |   |
|---------------------------|---|
| <b>Packaging</b>          | 25 kg bag   |
| <b>Shelf life</b>         | 6 months from date of production  |
| <b>Storage conditions</b> | Store properly in dry conditions, in undamaged and unopened, original sealed packaging. |

### TECHNICAL INFORMATION

|                                  |                    |                           |                        |
|----------------------------------|--------------------|---------------------------|------------------------|
| <b>Tensile adhesion strength</b> | Standard condition | $\geq 0.5 \text{ N/mm}^2$ | (EN 12004-2:2017, 8.3) |
|----------------------------------|--------------------|---------------------------|------------------------|

### APPLICATION INFORMATION

|                     |  |
|---------------------|--|
| <b>Mixing ratio</b> | 5.75-6.25 L of water per 25 kg bag   |
| <b>Consumption</b>  | This depends on the level, profile and surface roughness of the substrate, the size of the tiles, and the technique of placing (simple placing or "back"-buttering).<br>As a guide, in kilogram of powder per $\text{m}^2$ on flat surfaces: |

| <u>Tiles size</u>  | <u>Coverage</u>              | <u>Trowel size</u>           |
|--|------------------------------|------------------------------|
| Mosaics and small tiles  | ~2.0–3.0 kg/m <sup>2</sup>   | 3 mm x 3 mm notched trowel   |
| Normal size tiles (20 cm x 20 cm)  | ~5.0–5.5 kg/m <sup>2</sup>   | 6 mm x 6 mm notched trowel   |
| Large size tiles up to 3 600 cm <sup>2</sup> (internal floors) and 2 100 cm <sup>2</sup> (external floors) | ~10.0–11.0 kg/m <sup>2</sup> | 12 mm x 12 mm notched trowel |

The consumption above may only serve as a guide. It is highly recommended to carry-out trials on site to determine the actual coverage.

|                           |                      |
|---------------------------|----------------------|
| <b>Open Time</b>          | ~20 minutes at 25 °C |
| <b>Adjustability time</b> | ~15 minutes at 25 °C |
| <b>Curing time</b>        | ~24 hours at 25 °C   |

## 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

- Where higher bonding strength is required, Davco TTB 96 must be mixed with Davco Admix 99 latex additive. Please refer to the product data sheet for more details.
- Do not apply over single layer wood floors
- Do not use with moisture sensitive stones eg. green marble
- Do not use over rubber or strip wood floors
- Do not use over frozen or unsound substrates
- Do not use over wood, asphalt sheeting, vinyl covered wall board, cement asbestos board, metal, glass or plastics
- For installing porcelain tile – mix Davco TTB 96 with Davco Admix 99 latex additives. Please refer to the product data sheet for more details.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

- All surfaces must be structurally sound, dry, clean and free from movement, oil, grease, wax, curing compound and any other loose or contaminating materials that may affect bonding negatively.
- Dusty concrete surface or masonry should be swept clean or vacuumed and dampened with water prior to the application of Davco TTB 96.
- Weak concrete and/or cement laitance must be removed. Repairs to the substrate, filing of blowholes/voids, etc. must be carried out using ap-

propriate products from the SikaTop® or Sika® MonoTop® range of material.

- Painted surface must be scabbled/abraded to the original substrate. Newly rendered/screeded surface must be thoroughly cleaned prior to tilling and have a wood float finish.
- Old rendered/screeded surface must be thoroughly cleaned prior to tilling and have a wood float finish.
- New concrete must be allowed to cure for at least 1 month and have a wood float finish. Steel trowel finished concrete must be mechanically abraded prior to tilling.
- Old concrete surface must be thoroughly cleaned prior to tilling. Make sure all release agents are removed from concrete surfaces, especially on tilt-up slabs.
- Screeds should be allowed to dry out as slowly as practicable after curing to reduce the risk of curling. Cement-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 tiles is are laid. Please refer to BS 5385 or MS 1294.
- Ensure screed/render level is plumb to achieve optimum adhesive bed thickness.
- Non-absorbent surfaces can be prepared for tiling using Davco Bonding Agent. Refer to Davco Bonding Agent product data sheet for more details.
- Release powders at the back of porcelain tiles must be removed by washing.

### MIXING

Pour the amount of water required for mixing into a mixing container. Then, add Davco TTB 96 slowly into the mixing container while mixing continuously in a circular motion using a low-speed mechanical mixer until a lump-free, creamy consistency and uniform paste is achieved.

Allow the mix to stand for 5 minutes. Remix for another 15 to 30 seconds. Davco TTB 96 is ready to be applied.

### APPLICATION

Davco TTB 96 is spread onto the substrate using a proper and suitable notched trowel. The choice of

trowel should be governed by the size of the tiles, depth of knobs, grooves or ridges at 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 1 m<sup>2</sup> at any one time. Then, use the notched side of the trowel to apply the required amount of adhesive in one direction.

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

For tiles with grooves or ridges, it is necessary to skim a layer of adhesive/butter coat the back of the tiles. This is to ensure good bonding and effective coverage between the adhesive, tile and substrate.

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

Do not spread more than 1 m<sup>2</sup> at any one time. Fix tiles within 15 minutes of applying Davco TTB 96 and check contact by occasionally lifting the tiles.

Ensure there are no voids under the tiles and leave gaps around 3 mm at the perimeter of the wall & floor joints. These gaps can be sealed with Sikaflex® or Sikasil® range of products

For external tiling works, protect freshly laid Davco TTB 96 from direct sun and rain by means of a shelter. It is the user's responsibility to determine the condition and suitability of all surfaces prior to application.

#### **Grouting**

Tile joint 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.

#### **CLEANING OF EQUIPMENT**

Clean all tools and application equipments with clean water immediately after use. Hardened or cured material can only be removed mechanically.

## **LOCAL RESTRICTIONS**

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## **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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#### **Product Data Sheet**

Davco TTB 96  
April 2021, Version 02.01  
021710102000000450

DavcoTTB96-en-MYDAVCO-(04-2021)-2-1.pdf