



BUILDING TRUST



PRODUCT DATA SHEET

Davco 168

Ceramic tile / stone adhesive - floor and wall thin set mortar

DESCRIPTION

Davco 168 is a cement-based, thin or medium bed adhesive, suitable for fixing ceramic tiles onto walls and floors, dry or wet interior or exterior areas.

USES

Davco 168 is designed for installation of dimensional stone and ceramic tiles over a wide variety of substrates.

CHARACTERISTICS / ADVANTAGES

- Impact resistance
- Easy installation, user friendly
- Non-flammable
- Non-toxic

PRODUCT INFORMATION

Packaging	<ul style="list-style-type: none">▪ 20 kg bag▪ 25 kg bag
Appearance / Colour	Grey powder
Shelf life	6 months from date of production
Storage conditions	Store properly in dry conditions, in undamaged and unopened, original sealed packaging. Keep away from direct sunlight, rain, water and moisture.

TECHNICAL INFORMATION

Tensile adhesion strength	Standard condition	$\geq 0.5 \text{ N/mm}^2$	(EN 12004-2:2017, 8.3)
	Heat ageing	$\geq 0.5 \text{ N/mm}^2$	
	Water immersion	$\geq 0.5 \text{ N/mm}^2$	

APPLICATION INFORMATION

Mixing ratio	<ul style="list-style-type: none">▪ 4.4–4.8 L of water or Davco Admix 168 per 20 kg bag▪ 5.5–6.0 L of water or Davco Admix 168 per 25 kg bag
Consumption	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). As a guide, in kilogram of powder per m ² on flat surfaces:

Tiles size	Coverage	Trowel size
Ceramic mosaics, mounted ceramic	~5 kg/m ²	4 mm x 4 mm notched trowel
Ceramic & pavers (10 cm x 10 cm)	~5 kg/m ²	6 mm x 6 mm notched trowel
Quarry tile (15 cm x 15 cm and 20 cm x 20 cm)	~7.14 kg/m ²	6 mm x 10 mm notched trowel
Lugged back and Mexican paver tile	~10.4 kg/m ²	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.

Open Time ~15 minutes

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

- Davco 168 must not be used over wood, asphalt sheeting, vinyl covered wall board, masonite, cement asbestos board, metal glass or plastic.
- Do not apply over single layer wood floors
- Do not use with moisture sensitive stone. e.g. green marble
- Do not use over rubber or strip wood floors
- Do not use over frozen or unsound substrates
- Porcelain tile installation require the addition of Davco Admix 168 latex mortar additive to Davco 168.
- For application over unconventional substrates and where extra strengths are required, Davco 168 must be added with Davco Admix 168 latex mortar additive.

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.

Dusty concrete or masonry should be swept clean and dampened with water prior to the application of adhesive.

Weak concrete and/or cement laitance must be removed. Repairs to the substrate, filing of blowholes / voids, etc. must be carried out using appropriate products from SikaTop® or Sika® MonoTop® range of products.

Painted surface must be scabbled / abraded to expose the original substrate. Newly rendered / screeded sur-

face 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 are laid. Please refer to BS 5385 or MS 1294.

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

Wash and remove release powders at the back of porcelain tiles.

MIXING

Pour clean water into a mixing container. Then, slowly add Davco 168 while mixing. Do not Dump! Mix 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 and re-mix prior to use.

APPLICATION

Davco 168 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 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 1 m² 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 it within 30 minutes.

For tile with grooves or ridges, it is necessary to skim a layer of adhesive / butter coat the back of the tiles.

This is to ensure adequate material and a good bond

between the adhesive and tile.
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 m² at any one time. Fix tiles within 15 minutes of applying the adhesive and check the contact by occasionally lifting the tiles. Ensure there are no voids under the tiles and the edges between the tiles are even (lippage) with a consistent joint width.
For external areas, protect from direct sunlight 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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