



BUILDING TRUST



PRODUCT DATA SHEET

Davco StoneGrip 929

C2E high bonding strength and extended open time stone adhesive

DESCRIPTION

Davco StoneGrip 929 is a thin or thick bed cement adhesive with high strength and water resistant, suitable for fixing large format stones, marble and granites.

USES

- External pavers or stones subjected to traffic
- For walls and floors in both interior and exterior applications including swimming pools
- Installation of natural stones onto cement render, concrete blockwork and rendered brickwork

CHARACTERISTICS / ADVANTAGES

- High bonding strength
- Extended open time
- Suitable to use for wall and floor stone application

PRODUCT INFORMATION

Packaging	25 kg bag
Appearance / Colour	Grey powder
Shelf life	6 months from date of production
Storage conditions	Store properly in original, unopened and undamaged packaging in cool, dry conditions.

TECHNICAL INFORMATION

Tensile adhesion strength	Standard condition	$\geq 1.0 \text{ N/mm}^2$	(EN 12004-2:2017, 8.3)
	Water immersion	$\geq 1.0 \text{ N/mm}^2$	
	Heat ageing	$\geq 1.0 \text{ N/mm}^2$	

APPLICATION INFORMATION

Mixing ratio	5.5–6.5 L of clean water per 25 kg bag	
Consumption	6 mm x 6 mm notched trowel	~5.0–5.5 kg/m ²
	12 mm x 12 mm notched trowel	~10.0–11.0 kg/m ²
	20 mm x 20 mm notched trowel	~18.0–19.0 kg/m ²

Open Time	≥ 0.5 N/mm ² at 30 minutes (at 23°C) Under unfavourable conditions (direct sun, high ambient temperature and strong wind), the open time may be shorter.	(EN 12004-2:2017, 8.1)
Adjustability time	~15 minutes at 25 °C	
Curing time	~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

Not suitable for green and blue marble.

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

Stone preparation

For high absorbent stones, pre-treatment may be done by spreading a water-repellent impregnator evenly on the front surface and edges, allowing sufficient time for curing before laying. Refer to manufacturer's instructions to ensure safe application.

Release powders/dust at the back of the stones must be washed.

The practice of coating the back face of stones with a sealer should be avoided. The sealer prevents the stones from adhering to the bedding.

For moisture-sensitive stones, test to ensure the moisture content is within the tolerable range of both the stones and the stone adhesive e.g. by using calcium carbide test kit.

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 5 m 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 scabbed/abraded to the original substrate. Newly rendered / screeded surface must be thoroughly cleaned prior to stone laying and have a wood float finish.

Old rendered / screeded surface must be thoroughly

cleaned prior to stone laying 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 stone laying.

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. 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 tiling works. Please refer to BS 5385 or MS 1294.

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

Specifying adequate bedding material or providing vapour barrier and damp proof course may minimise watermark and efflorescence problems.

[Note: Skim the back of the stones to ensure optimum coverage. For external tiling works, protect 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.]

MIXING

Pour water into a mixing container, then add Davco StoneGrip 929. Mix continuously in circular motion using low-speed mechanical mixer until a lump-free, creamy consistency and uniform paste is achieved. Allow the mix to stand for 5 minutes and remix prior to use.

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 stones, depth of knobs, grooves or ridges on the back of the stones 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 stones in perpendicular motion and tapped into position to ensure positive contact with the adhesive and adjust within 15 minutes.

Ensure that the adhesive is wet when the stones 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 a time. Fix stones within 15 minutes of applying adhesive and check contact by occasionally lifting stones.

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

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

[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 stones within 15 minutes of applying adhesive and check coverage by occasionally lifting the stones]

Grouting

Grouting should preferably be carried after 24 hours of laying the stones 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 / 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

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