



BUILDING TRUST



## PRODUCT DATA SHEET

# Davco K555 Slurry

Two component cementitious waterproofing system

### DESCRIPTION

Davco K555 Slurry is a rigid two component cementitious waterproofing system. Its alkaline reactive formulation with synthetically modified alkaline resistant cement enables protection against possible water ingress.

### USES

- Interior and exterior waterproofing and damp-proofing of concrete, cementitious rendering, brickwork and blockwork.
- Sealing fine, hairline cracks in concrete structures not subjected to movement.
- Potable concrete water tanks, wet kitchen, bathroom, toilet, balcony, water tank, and RC gutters.

### CHARACTERISTICS / ADVANTAGES

- Economical
- Pre-batched components - mixes and applies easily
- Slurry or trowellable consistency
- Increased frost and salt resistance
- Protects against concrete carbonation and water penetration
- Non toxic - suitable for contact with drinking water

### PRODUCT INFORMATION

<b>Packaging</b>	Part A	20 kg powder
	Part B	5 L liquid
<b>Appearance / Colour</b>	Part A	Grey powder
	Part B	Milky white liquid
<b>Shelf life</b>	6 months from the date of production	
<b>Storage conditions</b>	Stored properly in original, unopened and undamaged sealed packaging in dry conditions. Protect from direct sunlight, rain, water and moisture.	

### TECHNICAL INFORMATION

<b>Tensile adhesion strength</b>	~0.5 N/mm <sup>2</sup>	(EN 1542)
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### APPLICATION INFORMATION

<b>Mixing ratio</b>	Part A : Part B = 20 kg powder : 5 L liquid	
<b>Fresh mortar density</b>	1.9–2.1 kg/l	

<b>Consumption</b>	<ul style="list-style-type: none"> <li>Waterproofing bathrooms, terraces and balconies is 1.0 kg/m<sup>2</sup> per coat</li> <li>Waterproofing coating more than 1 m waterhead is 1.5 kg/m<sup>2</sup> per coat</li> <li>As a protective coating is 2.0 kg/m<sup>2</sup> per coat</li> </ul> <p>Notes:</p> <ul style="list-style-type: none"> <li>Davco K555 Slurry must be applied in minimum of 2 coats, including up-turns up to 300 mm height.</li> <li>3 coats may be required in areas of extremely high infiltration</li> </ul>
<b>Pot Life</b>	~30 minutes at 30 °C
<b>Initial set time</b>	Touch dry ~1 hour
<b>Waiting time to overcoating</b>	<p><b>Waiting Time</b> The waiting time between coats is 4–8 hours (at +30 °C).</p> <p><b>Overcoating</b> For overcoating with cementitious materials, allow the second coat to harden for at least 3 days prior to overcoating. For use in water-retaining structures or for applying renders over it or for overcoating with non-cementitious materials, please contact Sika Technical Service Department.</p>

## 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

- Avoid application under direct sun and/or strong wind. Do not add water in any circumstances. Apply only to sound, prepared substrates - surfaces should be well dampened but free of surface water and leaks.
- For waterproofing or damp proofing application, always use at least 2 coats to give a total thickness of between 1.0–2.0 mm. In areas of severe water penetration, three coats might be required.
- Protect freshly applied material against direct sunlight, strong winds, rain and dust for at least 8 hours.
- Davco K555 Slurry does not provide a trafficable finish. Protect with screed mixed with Davco Bonding Agent.
- For waterproofing / damp-proofing works, special attention is required to avoid puncturing the waterproof coating with fixings.

## 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

The substrate must be structurally sound and free of all traces of contaminants, loose and friable particles, cement laitance, sharp edges, oils and grease etc. The concrete pull-off (tensile adhesion) strength must be >1.0 N/mm<sup>2</sup>.

### General

The substrate must be prepared by suitable mechanical preparation techniques such as high pressure water jetting, needle guns, blastcleaning, scabblers, etc. and properly pre-wetted to a saturated surface dry condition.

### For pore / blowhole filling

Blast clean to remove all contaminants including from within the pore / blowholes.

### As a levelling mortar

Prepare and clean all surfaces by suitable mechanical means such as abrasive blast cleaning or equivalent to ensure cement laitance, surface contamination and all existing coatings are removed and all blowholes and honeycombed areas are exposed. The resultant surface must be profiled to achieve maximum bond strength.

Absorbent surfaces have to be thoroughly saturated with water, preferably 2 hours prior to application of first coat of Davco K555 Slurry. However, no standing water should be on the surface before application. The surface shall not be allowed to dry-out before application of Davco K555 Slurry.

All intersections of horizontal and vertical surfaces should be profiled with a mortar fillet of 25 mm x 25 mm or seal with Sika® SealTape-F.

Note: Davco K555 Slurry will not bond to surfaces that have been treated previously with water repellent.

### MIXING

Pour Part B into a clean mixing container. Add Part A gradually while mixing continuously in circular motion using low-speed mechanical mixer until lump-free, plastic consistency is achieved. Mix for 2–3 minutes to ensure proper dispersion of the components - no addition of water is allowed.

### APPLICATION

Whilst the substrate is still damp from saturation, apply the first coat. Leave to harden for approximately 4–8 hours at temperatures above 20 °C before applying the second coat.

### As a slurry

Apply the mixed Davco K555 Slurry by hand using a hard plastic bristled brush or broom. Applied in the same direction. Apply the second coat of Davco K555 Slurry in a crosswise direction as soon as the first coat has hardened.

### As a mortar

Davco K555 Slurry is applied by trowel (e.g. for a smooth surface finish). In this application Davco K555 Slurry must be mixed with a 10 % reduction of part A. The first coat is applied with a 1 mm notched trowel. Apply the second coat of Davco K555 Slurry with a flat trowel as soon as the first coat has hardened. For pore / blowhole filling, tightly trowel into the pores / blowholes of the surface. For floor applications, to avoid risk of damage and contamination to the first coat, it is recommended that the second coat be applied within 24 hours of the first coat. If the second coat is applied 12 hours or later, the first coat shall be slightly prewetted, preferably by using a fine spray. After the second coat has been applied, a better finish can be achieved by rubbing down with a soft, dry sponge. For more details, please contact Sika Technical Service Department.

### CLEANING OF EQUIPMENT

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

### 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

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#### Product Data Sheet

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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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