



BUILDING TRUST



## PRODUCT DATA SHEET

# Davco K11 Slurry 613 HF

Two component highly flexible cementitious waterproofing system

### DESCRIPTION

Davco K11 Slurry 613 HF is a highly flexible, two component cementitious waterproofing system. The two components designed with combination of polymeric micro compound, will react chemically after mixing to form a hard but highly elastic film which bonds to most concrete or masonry substrate. Its quality and high content of synthetic resins enable the hardened layer of Davco K11 Slurry 613 HF to remain constantly flexible under normal environmental conditions.

### USES

- A flexible smoothing layer for light-sectioned concrete structures, including small deformation when under load, eg. Precast panel.
- Interior and exterior waterproofing and damp-proofing of concrete wall (to be plastered over).
- Repairing and waterproofing underground masonry subjected to waterhead and moisture seepage.

- Levelling or smoothing waterproofing compound of the underground walls before laying of bituminous sheets/liquid membrane and concrete repair works.
- Concrete water tanks, fountains, wet kitchen, bathroom, toilet, balcony, planter boxes, lift pit and RC gutters.
- Sealing fine hairline cracks in concrete structure and protection against carbonation.

### CHARACTERISTICS / ADVANTAGES

- Highly flexible with good crack bridging capability
- Protection against carbonation and water penetration
- Easy to mix and apply
- Impermeable

### PRODUCT INFORMATION

<b>Packaging</b>	Part A	20 kg powder
	Part B	8 L liquid
<b>Appearance and colour</b>	Part A	Grey powder
	Part B	Milky white liquid
<b>Shelf life</b>	6 months from 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 strength</b>	> 1.0 N/mm <sup>2</sup>	(ASTM D412-06a, Dumbell A test piece)
<b>Tensile strain at break</b>	> 100 %	(ASTM D412-06a, Dumbell A test piece)
<b>Water absorption</b>	< 7.5% compare with control	EN 1504-2

## APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 20 kg powder : 8 L liquid	
Consumption	Ground moisture	~1.0 kg/m <sup>2</sup> per coat
	Water seepage with hydrostatic pressure	~1.5 kg/m <sup>2</sup> per coat
	Water seepage without hydrostatic pressure	~1.0 kg/m <sup>2</sup> per coat
Note:		
<ul style="list-style-type: none"><li>▪ Davco K11 Slurry 613 HF must be applied in minimum of 2 coats, including upturns up to 300 mm height</li><li>▪ 3 coats may be required in areas of extremely high infiltration</li><li>▪ For upturn more 300 mm height, please contact Sika's Technical Service Department.</li></ul>		
Pot Life	~45 minutes at 30 °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.

## 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.

#### 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 K11 Slurry 613 HF. However, no standing water should be on the surface before application. The surface shall not be allowed to dry-out before application of Davco K11 Slurry 613 HF. 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.

### 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 but free from standing water, apply the first coat by brush, broom, roller or squeegee (if the surface is flat enough), working the material well into the substrate to achieve full bond. Allow 4–8 hours (+20 °C) for the first coat to cure before applying the following coats in the same manner. For large areas, Davco K11 Slurry 613 HF can be applied by spray using a suitable worm type mixer/pump. An additional stripe coat is recommended over cracks, wall/floor intersections, etc. as these locations are where movement is most likely to be expected in service.

### 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 cur-

rent 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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