



K11 FLEX

FLEXIBLE 2 PART CEMENTITIOUS WATERPROOFING SYSTEM



ECO FRIENDLY



**LOW CARBON
FOOTPRINT**



CRACK BRIDGING

DESCRIPTION

Davco K11 Flex is a flexible 2-part acrylic-modified cementitious concealed waterproofing system. The 2-components of Davco K11 Flex react chemically after mixing to form a hard and elastic film which bonds tenaciously to most concrete or masonry substrate to protect against possible ingress of water.

The application of Davco K11 Flex requires the surface to be saturated or wetted down prior to its application. This makes Davco K11 Flex a practical and ideal product for waterproofing in damp conditions such as basement, wet areas and external areas of most sites where the surface has to be pre-washed prior to applying any waterproofing system. In external areas, application of Davco K11 Flex is not affected by change in weather conditions.

Davco K11 Flex can receive direct plaster or screed without affecting bond. Marbles and tiles can be fixed directly onto Davco K11 Flex with most types of Davco adhesives.

Davco K11 Flex can accommodate slight movement of structure and can be used as a repair material for bridging cracks in substrate or cracks due to shrinkage up to 2mm width.

USES

Apply on internal and external surface of wall and slab, swimming pools, kitchens, toilets, balcony, water tanks. External areas parking deck, planter boxes, sealing precast joints and intersection of two concrete elements. Protection to lightweight blocks, hollow blocks, aerated blocks.

Suitable Substrate

- Concrete • Brickwork • Precast Surface
- Lightweight Blocks • Shotcrete

TECHNICAL DATA

Tensile Strength	> 1.5N/mm ²	ASTM D412-2016a
Elongation at break	> 150%	ASTM D412-2016a
Adhesion to concrete	> 0.3 N/mm ²	ASTM D4541:2002
Hardness Shore A	> 40	ASTM D2240:2015
Improves water resistance of concrete by more than 7 times @ 0.2kgf/cm ²		Passed DIN 1048 Pt 5:1991
Chemical resistance		Passed
NaOCl - 0.5%		
NH ₄ OH - 1.25%		
HCl - 3.7%		
Toxicity		Passed SS 375
Bridge cracks up to 2mm		Passed
Chloride Content		< 0.01%
Drying Time (30°C) Touch Dry		Approx. 1-3 hours
Foot Trafficable		4 hours
Ponding Test		24 hours after application
Pot Life (@30°C)		Approx. 2 hours

Specifications are subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

ADVANTAGES

- 2 components eliminates risk of incorrect mixing ratio.
- Seals lightweight aerated blocks
- Seals precast joints
- Anti-carbonation protection
- Non-toxic
- Foot trafficable when cured
- Will not attack metal





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SURFACE PREPARATION

Clean the substrate of any protrusion or substances that may damage the membrane. Ensure all surfaces are free from dirt, dust, grease, oil, wax, curing compounds and any other loose contaminating materials.

Fill all voids, cracks, edges and angles with Davco Grout 180 ECO or suitable repair material, so that the prepared surface is sound, even and level.

MIXING

Pour Davco K11 Flex Liquid into a clean mixing container. Add the Davco K11 Flex Powder gradually while mixing until a lump free plastic consistency is achieved. **NO ADDITION OF WATER IS ALLOWED.** It is recommended that mechanical mixing (400-500 rpm) should be used for 2-3 minutes to ensure proper dispersion of the components.

APPLICATION

Pre-wet the surface with clean water. Do not allow water ponding. Very porous surface must be primed with Davco Acrylic Primer prior to applying Davco K11 Flex. Apply the mixed material onto the prepared surface using a block brush, squeegee or roller in a stiffling action. Apply 1-2 coats finish depending on site conditions and film thickness required. If a trowel is used for application, all undulating or uneven areas must be patched to level before applying the Davco K11 Flex to prevent the material from building up too thick in one application.

Before a 2nd coat is applied, the 1st coat must be left for approximately 2-3 hours depending on the thickness, substrate porosity and the temperature until it is dry. The 2nd should be applied in a direction perpendicular to the 1st coat.

APPLICATION (CON'T)

Davco K11 Flex must be protected by rendering or screeding after application is cured for 24 hours.

Note : If applied directly onto lightweight aerated block, the block must be primed with Davco Acrylic Primer until a coloured tint is visible.

COVERAGE

Set Size (kg)	Coverage (m ²)	Thickness (mm)
42kg set	15 – 20 m ²	Approx. 1.2mm to 1.5mm
36kg set	12 – 17 m ²	Approx. 1.2mm to 1.5mm
12kg set	4 – 6 m ²	Approx. 1.2mm to 1.5mm
10kg set	3 – 5 m ²	Approx. 1.2mm to 1.5mm

Wet film thickness: 0.7 ± 0.1 mm/coat.

PACKAGING

42 kg set, 36 kg set, 12 kg set & 10 kg set.

SHELF LIFE

Davco K11 Flex has a shelf life of up to 12 months in unopened bags and containers when stored in a cool dry and elevated position.

CLEANING

All tools and equipment should be cleaned immediately with clean water after use. Hardened material can only be removed mechanically.

HEALTH & SAFETY

Product contains cement, which may cause dermatitis. Wear rubber gloves when handling the product. In case of insufficient ventilation, put on suitable respiratory equipment. Do not apply the product when the surface temperature is below 5°C or greater than 45°C. Refer to safety data sheet.

Disclaimer

The use of this product is beyond the manufacturer's control and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. Specifications are subjected to changes without prior notice. Before application, customers and users are requested to check that they have the latest version of this document from our website www.sika.com.sg

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