



K11 FLEX RAPIDEX (II)

CEMENTITIOUS WATERPROOFING SYSTEM



ECO FRIENDLY



**LOW CARBON
FOOTPRINT**



CRACK BRIDGING

DESCRIPTION

Davco K11 Flex Rapidex (II) is a 2-part acrylic modified waterproofing system that is specially formulated with high performance cement for fast setting properties, reducing the drying time between application coats. This shortens the job lead time and increases workers' productivity.

Davco K11 Flex Rapidex (II) is incorporated with advanced Dust Less Technology to improve air quality, minimise mess and clean up time on site.

Davco K11 Flex Rapidex (II) can be applied on damp surfaces and is excellent for waterproofing basement, wet areas and external areas of most sites, where the surface has to be pre-washed prior to applying any waterproofing system. Davco K11 Flex Rapidex (II) has crack bridging properties making it an ideal repair material for shrinkage cracks in substrate up to 2mm width.

USES

Davco K11 Flex Rapidex (II) is ideal for bathroom renovation projects where time is of essence. It increases the productivity of workers and lowers manpower cost in the project.

Primary uses are for waterproofing 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 Substrates

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

TECHNICAL DATA

Tensile Strength	: > 1.7 N/mm ²	ASTM D412-92
Elongation at break	: > 150%	ASTM D412-92
Adhesion to concrete	: > 1.0 N/mm ²	ASTM D4541
Hardness Shore A	: > 40	ASTM D2240 : 91
Improves water resistance of concrete by more than 7 times @ 0.2kgf / cm ²	: Passed	DIN 1048
Chemical resistance	: Passed	
		NaOCl - 0.5%
		NH4OH - 1.25%
		HCl - 3.7%
Toxicity	: Passed	SS 375
Flexible over 25mm diameter mandrel	: Passed	
Bridge cracks up to 2mm	: Passed	
Water penetration	: 0	
Chloride Content	: < 0.01%	
Pot Life (@ 25°C)	: Approx. 1 hr	
Drying Time (@ 25°C)	: Approx. 1 - 3 hrs	
Touch Dry	(1 - 1.5 hrs with aid of mechanical fan)	
Foot Trafficable	: 2 - 3 hrs	
Ponding Test	: 2 hours after application	(ensure membrane is fully dry before ponding test)

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

- Water based, non-toxic and fast setting.
- Forms a tough membrane when cured. It is foot trafficable and does not require protection prior to fixing other types of finishes.
- Dust Less Technology minimises mess and improves air quality.
- Easy to mix; components are pre-weigh in factory and 1:1 mixing eliminates risk of incorrect mixing ratio.
- Seals lightweight aerated blocks and precast joints.



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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 Lanko Grout 180 ECO or suitable repair material, so that the prepared surface is sound, even and clean.

MIXING & APPLICATION

Put Davco K11 Flex Rapidex (II) Liquid into a clean mixing container. Add the Davco K11 Flex Rapidex (II) 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.

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 Rapidex (II). 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 Rapidex (II) 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 1-1.5 hours with mechanical fan to aid ventilation. Actual drying time is dependent on the thickness applied, substrate porosity and the ambient temperature.

Davco K11 Flex Rapidex (II) must be protected by rendering or screeding after application.

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

COVERAGE & PACKAGING SIZE

Set Size (kg)	Coverage (m ²)	Thickness (mm)
12kg set	4 - 6 m ²	Approx. 1.2mm to 1.5mm
10kg set	3 - 5 m ²	Approx. 1.2mm to 1.5mm

SHELF LIFE

12 months in unopened container, when stored in a cool dry place.

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. Product is classified as non-hazardous. 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.parexgroup.com.sg



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