



# K10 DAMPFLEX

## POLYURETHANE MODIFIED WATERPROOFING SYSTEM



ECO FRIENDLY



LOW VOC



WATER BASED

### DESCRIPTION

A polyurethane modified concealed waterproofing and sealing membrane, ready-to-use from the container.

### USES

Provides a seamless waterproofing system which is ideal for use in shower recess prior to tiling.

Can also be used to waterproof terraces & balconies.

### ADVANTAGES

Davco K10 Dampflex is a premixed waterproofing membrane, making it easy to use directly out of the container.

Davco K10 Dampflex is extremely flexible enabling it to cater for limited floor movement while absorbing vibration.

Being a waterproofing membrane, Davco K10 Dampflex prevents surface water penetration when applied correctly.

Davco K10 Dampflex is a water-based product therefore it is non-toxic and non-flammable.

Davco K10 Dampflex is certified as a sustainable waterproofing product by Singapore accredited Eco labelling authority.

### SURFACE PREPARATION

#### General

Wallboards, flooring grade particleboard and fibrous cement sheet must be firmly fixed in accordance with manufacturer's instructions.

Screw or nail heads must be sealed with epoxy resin.

Gyprock joints need to be covered with 50mm wide gyprock tape.

All surfaces must be structurally sound, dry and free from dust, grease, wax, oil, curing compounds and other loose contaminating materials.

All loose mortar or plaster, etc must be removed and then the entire area cleaned to remove dust and dirt.

#### New Concrete:

All new concrete slabs must be allowed to cure for at least 4 weeks before applying Davco K10 Dampflex.

### TECHNICAL DATA

Specific Gravity	1.42 kg/L
Adhesion to substrate	
a. Condition to cast	1.0 N/mm <sup>2</sup>
b. Water immersion for 3 days	> 0.2 N/mm <sup>2</sup>
Elongation	
ASTM D412 : 2016a	
- Before ageing	> 150%
- After ageing	Pass > 120%
-ve ≤ 20%	
No limit for +ve change	
Tensile Strength	
Adhesion to cast	> 0.2 N/mm <sup>2</sup>
ASTM D412 : 2016a	
- Before ageing	≥ 1.2 N/mm <sup>2</sup>
- After ageing	Pass > 1.0 N/mm <sup>2</sup>
-ve ≤ 20%	
No limit for +ve change	
Crack Bridging	No crack @ 2mm <sup>2</sup> Width
	No crack after 10 cycles of stretching and closing to a width of 1mm
Shore hardness after 2 hrs	≥ 35
Set to touch @ lab condition	< 60 minutes
Water penetration	0

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.



BUILDING TRUST





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## Old Concrete:

Clean the surface with a strong commercial grade detergent or degreaser, then remove all residue with fresh water using a high-pressure hose.

Allow the surface to dry thoroughly for at least 24 hours.

Prior to using Davco K10 Dampflex, check and remove all protrusions from the surface, which may pierce the membrane.

## Render

Newly rendered surfaces must be allowed to cure for at least 7 days.

## Metal/Wooden Surfaces:

Ensure that all surfaces are totally free of rust. Prime the surface using a Davco Primer XP.

## Cracks

Small hairline cracks, which experience no movement, may be filled by the first application of Davco K10 Dampflex.

For hairline cracks wider than 2mm, a joint filler should be applied along the length of the crack prior to the application of Davco K10 Dampflex.

Structural shrinkage cracks up to or greater than 2mm wide, which experience movement, must be filled firstly with a silicone based masonry sealant. Then place a 50mm wide polythene or polypropylene tape over the crack ensuring it adheres to the surface. The Davco K10 Dampflex membrane should then be applied over the tape and allowed to cure for at least 4 hours prior to applying a second coat.

## Timber, Fibre Cement and Particle Boards

Ensure all floorboards and sheets are nailed in accordance with the manufacturer's instructions.

## APPLICATION

Apply the area using either a roller or brush, with Davco K10 Dampflex, directly from the can. Do not dilute as product is supplied ready to use.

Allow the first coat to dry for 1 - 2 hours. Apply a second coat and allow it to dry for 4 hours. (The application shall be minimum of 2 coats. Third coat may be necessary to ensure that the whole surface is uniformly applied and no pinholes are left on the surface).

## APPLICATION (CON'T)

Ponding test can be carried out 24 hours after application of final coat. Davco K10 Dampflex must be protected by rendering or screeding after application.

Ensure sufficient falls are provided to prevent ponding of water.

Do not apply if temperature is in excess of 45°C or less than 10°C.

Do not add sand to the Davco K10 Dampflex as this will reduce flexibility and could cause cracking.

Do not use where negative hydrostatic pressure is evident.

Note: For public housing term contract apply only 1 coat @ 250 micron (WFT) and ensure that the whole surface is uniformly covered.

## COVERAGE

20 Ltr / 28.4 kg of Davco K10 Dampflex will cover approximately 25m<sup>2</sup> at thickness 700 micron (wet film) depending upon site conditions.

## PACKAGING

Davco K10 Dampflex is available in 5 Ltr / 7.1 kg and 20 Ltr / 28.4 kg containers.

## SHELF LIFE

Up to 12 months in an unopened container, if stored in a cool dry place.

## CLEANING

Tools and excess Davco K10 Dampflex can be cleaned up with water while it is still wet.

## HEALTH AND SAFETY

In case of eye splashes or excessive skin contact thoroughly flush with clean water if ill effects occur. Seek medical attention immediately. 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](http://www.sika.com.sg)

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