



Davco

EXCELLENCE IN
TILING SYSTEMS

DAVCO K10 PLUS

DESCRIPTION

Davco K10 Plus is a flexible, single pack water based polyurethane waterproofing membrane, which is capable of drying in approximately 6-8 hours @ 20°C depending on the number of coats required. It is available in two colours – green and grey.

USES

- Waterproofing of internal and external wet areas, such as showers, bathrooms, terraces and balconies, which can be tiled over if required, using Davco cement based adhesives.
- Ideal for roofs, including walkways and other exposed situations, as it is UV stable and foot trafficable.
- Suitable for retaining walls and planter boxes provided that adequate drainage is in place.

FEATURES AND BENEFITS

- A tough flexible membrane film which eliminates the need for a reinforcing layer.
- Being a liquid applied membrane, the risk of failure along the seams as in sheet membranes is eliminated.
- Davco K10 Plus is UV stable.
- Davco K10 Plus is foot trafficable.
- As there is no solvent release, Davco K10 Plus offers greatly reduced effects to the health of applicators and can be used in confined areas.
- Davco K10 Plus can be applied with airless spray equipment, allowing for faster installations, reducing time on the job.
- Fully tested for compatibility with Davco cement based tile adhesives
- Does not stain tiles or marble.
- Davco K10 Plus dries in 2-4 hours per coat, therefore allowing same day trafficking or tiling.
- Can be applied on damp, visibly dry surfaces without the fear of blistering.
- A reusable "green" product: the balance of Davco K10 Plus can be stored under proper conditions and re-used when necessary, reducing the pressure of waste on the environment as well as tipping fees.
- Davco K10 Plus is available in two colours, green and grey. This allows for ease of identification between coats and can be used as a quality control tool on job sites.
- Davco K10 Plus meets the requirements of AS4858:2004 Wet Area Membrane.

SURFACE PREPARATION

General

- All surfaces must be structurally sound and free from dirt, dust, laitence, grease, paint, wax, oil and any other loose contaminants.
- Prior to application, remove all sharp protrusions, which may pierce the membrane.
- Any voids, potholes in the substrate must be appropriately filled up with a high strength mortar.

Concrete

- All new concrete slabs must have a wood float finish and be allowed to cure for at least 6 weeks.
- Old concrete must be cleaned with a strong commercial grade detergent or degreaser. Then thoroughly wash off all residue with clean water. Allow the surface to dry for at least 24 hours.
- If the concrete (new or old) has a steel trowel or power float finish, it must be mechanically abraded to expose the aggregate, and remove any signs of laitence.

Render

- New rendered surfaces must have a wood float finish and be allowed to cure for at least 7 days.

Lightweight Blocks

- Prime the surface with K10 Plus diluted 1 part to 3 with water.

Metal Surfaces

- All metal surfaces must be totally free of rust.
- Prime metal surfaces with etching primer.

Cracks/Joints - NOT subject to movement.

- Small hairline cracks, up to 1mm wide, may be filled by the first application of Davco K10 Plus.
- For cracks/joints wider than 1mm, a joint filler should be applied along the length of the crack prior to the application of Davco K10 Plus.

Cracks/Joints - subject to movement.

- All cracks/joints, irrespective of their width, must be filled firstly with Davco Davsil (Silicone Sealant) or Sodaflex 603 (Polyurethane Sealant). Then 50mm wide polyethylene/polypropylene tape should be placed over the crack, ensuring it adheres to the surface.

Building Boards

- Standard wall/floor building boards must be firmly fixed in accordance with manufacturer's instructions and appropriate Australian Standards. Such boards include plasterboard; fibre cement sheeting; marine grade ply and wet area composition board.
- Screw or nail heads must be sealed with epoxy.
- All sheeting joints need to be covered with 50mm wide polyethylene/polypropylene tape.

Falls to Drain

- In all wet areas, it is important that falls be provided to the drain outlet. The slope of this fall should be



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1:80 – which equates to a 12.5mm fall over 1m. If the existing substrate does not provide the necessary falls, a sand/cement screed needs to be created. Once the screed is in place, apply the membrane as per instructions below. Contact the Technical Advisory line for more information on an appropriate screed mix should this be required.

- For balconies and rooftops, it is important that falls be provided to the edges or the drain outlet. The slope of this fall should be 1:100 – which equates to a 10mm fall over 1m. If the existing substrate does not provide the necessary falls, a sand/cement screed needs to be created. Once the screed is in place, apply the membrane as per instructions below. Contact the Technical Advisory line for more information on an appropriate screed mix should this be required.

APPLICATION

Priming

All surfaces should be prepared in accordance with Surface Preparation instructions.

Concrete Surfaces

- This can be primed with Davco Ultraprime Coverage is approximately 8-10m²/L depending on site conditions. Allow the primer to dry before application of the membrane.

Timber Surfaces

- This applies to solid timber floors, ply and particle board flooring. Prime the surface with Ultraprime, which will cover approx. 8-10m²/L depending on site conditions. Allow the primer to dry before application of the membrane.

Compressed Fibre Cement

- This should be primed using Dampflex Primer. This will cover approx. 8-10m²/L depending on site conditions. Allow the primer to dry before application of the membrane. Dampflex Primer is a solvent-based primer system – refer to datasheet and MSDS for application and handling instructions.

Bond Breaker

Abelrod

- When using Abelrod as a bond breaker, prime the surface first, as per instructions. Allow to dry.
- Place Abelrod along all wall/floor and wall/wall junctions, and secure into place with polyethylene/polypropylene tape.

Silicone or Polyurethane

- When using either Davsil (Silicone) or Sodaflex 603(Polyurethane) as a bond breaker, apply the bead into the corner, and smooth out with spatula or smoothing tool, to give a rounded cove in the corner.
- Allow to cure for 24 hours before subsequent application of membrane.

General Application

- Davco K10 Plus requires NO MIXING. Apply directly from the pail. Use a thick brush or a short nap roller to apply the first coat of Davco K10 Plus on the area to be waterproofed.
- Allow the first coat to dry for approximately 1-2 hours before applying the 2nd coat at 90° to the first coat.
- Apply a third coat only if necessary or required to do so.
- Allow the final coat to dry for at least 4-6 hours. This gives an overall drying time of 6-8 hours for the full application.

Note: The lower the temperature, the slower the drying time of the membrane.

Drain Application

- Prime inside and around the drain as per priming instructions.
- Apply the first coat of K10 Plus in and around the drain. Allow the first coat to dry for approximately 1-2 hours at 20°C.
- Apply a second coat in and around the drain ensuring no pinholes or air bubbles are present on the membrane surface. If necessary apply a third coat.

Ponding

- If pond testing is required, ensure the membrane is allowed to cure for a minimum of 7 days before pond testing. Contact our Technical Advisory line on 1800 653 347 if pond testing is required earlier than 7 days.

COVERAGE

Coverage will vary, depending on the application. K10 Plus is recommended for use at the following thicknesses in these specific applications:

- **Wet Areas**
0.6mm dry film thickness, applied at the rate of 1L/m² (two normal coats). A 20L pail will cover 20m².
- **Balconies / Patios – Covered External Areas**
0.8mm dry film thickness, applied at a rate of 1.25L/m² (two heavy coats). A 20L pail will cover 16m².
- **Rooftops – Exposed External Areas**
1.0mm dry film thickness, applied at the rate of 1.5L/m² (three heavy coats). A 20L pail will cover 13m².



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PACKAGING

- Davco K10 Plus is available in the following colours and packages:
 - Green – 4 litre and 20 litre containers
 - Grey – 20 litre containers

SHELF LIFE

- Up to 12 months in unopened containers, stored in a cool dry elevated place.

CLEAN UP

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

PRECAUTIONS

- Do not allow the product to freeze.
- Do not apply if the temperature is in excess of 45°C or less than 5°C.
- Delay external applications when inclement weather is imminent.
- Do not thin the liquid, it is supplied ready for use.
- Davco K10 Plus is not recommended for use in areas of permanent water immersion like swimming pools, spas etc.
- Do not use where negative hydrostatic pressure is evident (ie: rising damp), as it affects the bond of Davco K10 Plus. Contact your ParexDavco (Australia) Pty Ltd office for product recommendation in areas where negative hydrostatic pressure exists.
- For other uses or the use of Davco K10 Plus over substrates/situations not mentioned, contact your nearest ParexDavco (Australia) Pty Ltd office.

TECHNICAL DATA

Properties:	
Appearance:	Green or Grey liquid
Drying Time at 20°C:	6 – 8 hours
Crack bridging:	Up to 2mm
Elongation at Break (7 day dry):	400%
Tensile strength (7 day dry):	3N/mm ²
Adhesion to concrete:	1.03N/mm ²
Shore hardness:	25
Re-coat Time (at 20°C):	1-2 hours
Full Cure (at 20°C):	3 days

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AS4858 PERFORMANCE TESTING

Membrane Durability Elongation at Break	Strain %	Result
Control	563%	Class III High Extensibility
Water immersion	917%	Pass
Bleach Immersion	882%	Pass
Detergent Immersion	655%	Pass
Heat Ageing	509%	Pass

Resistance of Membrane to Cyclic Movement	Result
Number of Cycles completed	50
Surface Cracking	Nil
Surface Tears	Nil
Membrane Rupture	Nil

Moisture Vapour Transmission Rate	Result
ASTM96 Desiccant Method	1.22g/m ² /24hrs Pass

Bond Breaker Requirement

K10 Plus is a Class III membrane, with High Extensibility. As such, the minimum bond breaker width to bridge joints opening up by 5mm is 12mm (Davsil can be used)

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. All workmanship must be carried out in accordance with AS 3740 - 2004.

The information contained herein is to the best of our knowledge true and accurate. No warranty is implied or given as to its completeness or accuracy in describing the performance or suitability of the product for a particular application. Users are asked to check that the literature in their possession is the latest issue.

PAREXDAVCO

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