



BUILDING TRUST



PRODUCT DATA SHEET

Davco K10 Plus

A FLEXIBLE, PREMIXED, WATER BASED POLYURETHANE CLASS III WATERPROOFING MEMBRANE

DESCRIPTION

Davco K10 Plus is a premium performance, flexible, premixed, Class III, water based polyurethane waterproofing membrane designed for the use under tile, stone and other resilient finishes.

USES

Davco K10 Plus is suitable for interior and exterior applications. Commercial and domestic wall and floors including wet areas such as showers, bathrooms, terraces, balconies, roofs and walkways, prior to tiling, using a Sika branded polymer modified cement based tile adhesive. Davco K10 Plus is also suitable for confined areas as it is water based and solvent free.

CHARACTERISTICS / ADVANTAGES

- Premixed, ready to use.
- Suitable as an anti fracture membrane
- Excellent cure time
- Water based polyurethane
- Class III, highly flexible >500%
- Non toxic
- Available in Green or Grey

APPROVALS / STANDARDS

AS/NZ 4858:2004 Branz Test Report (DC13205-001)
Branz Appraisal Internal No.1142 (2020)
Branz Appraisal External No.1141 (2020)

PRODUCT INFORMATION

Packaging	Available in a 4L or 20L Pail (Green) and a 20L pail (Grey)
Shelf life	12 months from date of manufacture
Storage conditions	Store in dry cool conditions out of direct sunlight. Do not allow the product to freeze.
Volatile organic compound (VOC) content	40g/L (SCAQMD method 304-91)

APPLICATION INFORMATION

Consumption	<p>The minimum dry film thickness required is 1.0mm. This should be achieved by applying 2 coats at a rate of 1.45L/m². A 20L pail will cover approximately 13.8m² with 2 coats (0.75mm per wet film thickness) A 20L pail will cover approximately 22m² with 1 coat (0.75mm per wet film thickness)</p>
Drying Time	<p>Allow the membrane to dry for approximately 1-2 hours prior to applying the second coat. Allow the membrane to dry for 6-8 hours prior to tiling or other finishes. <i>*Measurements are taken at 22°C and 50% relative humidity. Specifications vary according to site conditions and should be taken as a guide only.</i></p>

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.

FURTHER INFORMATION

TECHNICAL DATA	K10 PLUS
Elongation	>500%
Water vapour transmission rate	1.55g/m ² /24 hours
Water absorption	2.2%
Tensile strength	2.1MPa
Adhesion to concrete	1.1MPa
Shore A hardness	72
Pencil Hardness Test (ASTM D 2240)	6B

IMPORTANT CONSIDERATIONS

- Test product in an inconspicuous area first.
- Do not apply in temperatures above 35°C or below 5°C
- Do not allow the product to freeze
- Delay external applications when inclement weather is imminent
- Do not thin the liquid, product is ready to use.
- Do not use in areas of permanent immersion such as swimming pools or ponds etc
- Do not use where negative hydrostatic pressure is evident (rising damp), as if affects the bond of Davco K10 Plus. Contact Sika technical for further advice.
- Substrates shall be rigid enough to accommodate the incumbent tile, stone or other finishing material and comply with applicable deflection standards.
- Davco K10 Plus is not designed to be left exposed and shall be covered by a tile, stone or other finishing material.
- For other uses not mentioned in this document please consult Sika Australia.

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

General

- All surfaces must be installed according to manufacturer's instructions and relevant Australian Standards and be structurally sound, dry, clean and free from movement, oil, grease, wax, curing compounds, release agents, efflorescence or any other loose or contaminating material.
- Prior to application, remove all sharp protrusions, which may pierce the membrane
- Avoid voids, potholes and divots in the substrate must be appropriately prepared with a Sika branded patching mortar.

Concrete

- All new concrete slabs must have a wood float finish and be allowed to cure for 6 weeks.
- Old concrete must be cleaned with a strong commercial grade detergent or degreaser. Residue must be thoroughly washed off with clean water. Allow the surface to dry for at least 24 hours.
- If the concrete has a steel trowel or power float finish, it must be mechanically prepared to expose the aggregate. Signs of Laitance and Efflorescence must be removed.

Cement Render & Screeds

- Rendered or screeds must have a wood float finish and be allowed to cure for 7 days.

Light Weight Blocks

- Prime the surface with 2 coats of Davco Ultraprime or Davco PrimeX

Metal drains and waterstop angles

- All metal surfaces must be free from rust
- Lightly abrade/ sand the substrate prior to application of the Davco K10 Plus

PVC Control leak flanges

- Control leak flanges shall be recessed to avoid water pooling
- Lightly sand control leak flanges prior to waterproofing application

Bond Breaker

Any suitable Sika neutral cure silicone sealant

Connector Sealants

Any suitable Sikaflex PU sealant

Cracks - subject to movement (non structural)

- All cracks / joints, irrespective of their width, must be filled with a Sika branded Neutral cure silicone sealant. Then a 50mm wide polyethylene / polypropylene tape should be placed over the crack, ensuring it adheres to the surface.

Building Boards and Sheeting

- Standard wall / floor building boards must be primed with a suitable Sika Branded primer and firmly fixed in accordance to manufacturer instructions and applicable Australian Standards. Such boards / sheeting include plasterboard, fibre cement sheeting, marine grade ply and wet area composition board. Check with the board / sheeting manufacturer for their suitability.
- Screw or nail heads must be treated with a Sika branded epoxy or a Sika connector sealant
- All sheeting joints need to be covered with a 50mm wide Polyethylene / Polypropylene tape.

Falls to Drains

- In all wet areas, it is important that falls be provided to the drain outlet. The slope of this fall should be 1:80 - which equates to 12.5mm fall over 1m. For wet areas, balconies, and rooftops, if the existing substrate does not provide the required falls, a sand/cement screed will be need to be created. Once the falls are in place and screeds have cured, apply the Davco K10 Plus as per instructions. Contact Sika Australia for more information on screed mix should this be required.
- For balconies and rooftops, 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 fall, a sand / cement screed needs to be created. Once the screed is in place and has cured adequately, apply the membrane as per instructions below. Contact Sika Australia for more information on an appropriate screed mix should this be required.

SUBSTRATE PREPARATION

Substrate Priming

All substrates shall require priming prior to the application of Davco K10 Plus.

Substrate	Primer
Porous substrates	Davco UltraPrime Davco PrimeX
Dense Concrete	Davco PrimeX
Metal and PVC terminations and connections	lightly sand/abrade prior

Refer to primer product datasheet for additional information.

Sika Australia Pty Limited

ABN 12 001 342 329

aus.sika.com

Tel: 1300 22 33 48



Product Data Sheet

Davco K10 Plus

January 2024, Version 01.04

02179020220000008

APPLICATION

- Use a thick brush or a short nap roller to apply the first coat of Davco K10 Plus on the area to be water-proofed
- Allow the first coat to dry for approximately 1-2 hours before applying the 2nd coat at 90° to the first coat. Ensure there are no pinholes or air bubbles on the membrane surface
- Apply a third coat only if necessary or required to do so
- Allow the final coat to dry for at least 6 hours before tiling (according to temperature conditions). 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

CLEANING OF TOOLS

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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 current 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.

DavcoK10Plus-en-AUDAVALCO-(01-2024)-1-4.pdf