Davco

Product Data Sheet

K10 Plus

A flexible, 1 part, ready to use, water based polyurethane Class III waterproofing membrane

FEATURES & BENEFITS

- Ready to use straight from the pail
- Suitable as an anti-fracture membrane
- Excellent curing time
- Water based polyurethane
- Non-toxic
- UV stable
- Available in green or grey

PACKAGING

Available in a 4L or 20L pail (green) and a 20L pail (grey)

WHERE TO USE

Surfaces

Most common substrates; concrete, cement renders, screed, lightweight blocks, prepared metal surfaces, building boards approved for wet areas, such as compressed fibre cement sheeting.

Areas

Suitable for interior and exterior applications. Commercial and domestic walls and floors including wet areas such as showers, bathrooms, terraces, balconies, roofs walkways prior to tiling, using Davco cement-based adhesives. Also suitable for confined areas, as Davco K10 Plus is water based and solvent free.

PRODUCT INFORMATION

AS 4858 Classification

AS/NZS 4858: Class III membrane

VOC Content

Low VOC - 40g/L (SCAQMD method 304-91)

Coverage

Wet areas (2 coats required)
The minimum dry film thickness required is 0.6mm for walls and 0.8mm for floors. This should be achieved by applying 2 coats at a rate of 0.9L/m^2 for walls and 1.25L/m^2 for floors. A 20L pail will cover approximately 22m^2 of walls or 16m^2 of floors.

Balconies / patios - covered by hard floor covering (2 heavy coats required)
The minimum dry film thickness required is 0.8mm for floors. This should be achieved by applying 2 heavy coats at a rate of 1.25L/m^2 for floors. A 20L pail will cover approximately 16m^2.

Curing Time

Single coat 6-8 hours at 22°C

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DIRECTIONS FOR USE

- A test area should be undertaken to ensure suitability

SURFACE PREPARATION

- All surfaces must be installed according to manufacturer's instructions and relevant Australian Standard(s) and be structurally sound, dry, clean and free from movement, oil, grease, wax, curing compounds, release agents and any other loose or contaminating material
- 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 (Lanko 136 Rapid patching 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. Residue must then be throughly washed off 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. Signs of laitance must be removed
- Prime the concrete surface using Davco Ultraprime or Davco PrimeX

Render/Screeds

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

Lightweight Blocks

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

Metal Surfaces

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

Cracks / Joints - NOT subject to movement

- Small hairline cracks, up to 1mm wide, may be filled by the first application of 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 K10 Plus or Davco K5 Bond Breaker

Cracks / Joints - subject to movement

- All cracks / joints, irrespective of their width, must be filled firstly with K5 Bond Breaker. 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 primed with PrimeX and 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. Check with manufacturer of other building boards for their suitability
- Screw or nail heads must be sealed with either epoxy or K5 Bond Breaker
- 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 1:80 – which equates to a 12.5mm fall over 1m. For wet areas, balconies and rooftops, if the existing substrate does not provide the necessary falls, 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
- 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

APPLICATION

Concrete Surfaces

- This can be primed with Ultraprime or PrimeX. 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. Allow the primer to dry before application of the membrane

Compressed Fibre Cement

- This should be primed using PrimeX. Allow the primer to dry before application of the membrane. Refer to the PrimeX Data Sheet for instructions

Bond Breaker - Abelrod

- When using Abelrod gap filler as a bond breaker, prime the surface first as per instructions. Allow to dry
- Place Abelrod gap filler along all wall / floor and rapid junctions and secure into place with polyethylene / polypropylene tape
- When using K5 Bond Breaker, apply the bead into the corner and smooth out to form a 12mm cove in the corner
- Allow to cure for 24 hours before subsequent application of membrane

General Application

- 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 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. 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

Drain Application

- The drainage flange should ideally be recessed into the substrate and a bead of K5 Bond Breaker sealant placed around the circumference. The drainage flange should be lightly sanded before priming with plumbers primer
- Apply the first coat of K10 Plus in and around the drain and allow 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 5 days before pond testing

Clean-up & Return to Service

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

PRECAUTIONS

Safety

- SDS is available from **www.davcoaustralia.com.au**
- It is recommended that applicators wear PVC or similar gloves and safety goggles while handling this product.
- Keep out of reach of children. If eye contact occurs, rinse with cool water
- If ingested, seek immediate medical assistance

General

- Do not apply in temperatures above 35ºC or below 5ºC
- Do not allow the product to freeze
- Delay external applications when inclement weather is imminent
- Do not thin the liquid, it is supplied ready for use
- Do not use K10 Plus in areas of permanent water immersion like swimming pools, spas etc.
- Do not use where negative hydrostatic pressure is evident (i.e. rising damp), as it affects the bond of K10 Plus. Contact Sika Australia for product recommendation in areas where negative hydrostatic pressure exists

Specific

- For other uses not mentioned in these instructions, please contact Sika Australia

TECHNICAL DATA

TECHNICAL DATA	K10 PLUS
Appearance	Green or grey liquid
Drying time per single coat at 22°C	6-8 hours
Elongation	>500%
Water vapor transmission rate	1.55g /m² /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
Shelf life when stored unopened in elevated, cool, dry location	12 months

All measurements are taken at 22°C and 50% relative humidity. Specifications vary according to site conditions and should be taken as a guide only.

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.

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Davco products manufactured in Australia are produced in accordance with quality management systems certified as complying with AS/NZS ISO 9001:2008.

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