



BUILDING TRUST



PRODUCT DATA SHEET

Davco® K12 WPM

A FLEXIBLE, MICRO-FIBRE REINFORCED, PRE-MIXED CLASS III, WATER BASED POLYURETHANE WATERPROOFING MEMBRANE

DESCRIPTION

A flexible, 1 part, micro-fiber reinforced, ready to use, water based polyurethane Class III waterproofing membrane.

USES

Davco® K12 WPM is designed for use for under tile waterproofing applications.

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 and other situations which can be tiled over, using Davco cement-based adhesives. Also suitable for confined areas, as Davco K12 WPM is water based and solvent free

CHARACTERISTICS / ADVANTAGES

- High extensibility Class III
- Micro fiber reinforced
- Ready to use straight from the pail
- Suitable as an anti-fracture membrane
- Excellent curing time
- Water based polyurethane
- Non-toxic
- Available in grey colour

PRODUCT INFORMATION

Packaging	Available in 17kg pail
Shelf life	12 months for date of manufacture if un-opened.
Storage conditions	Store in dry cool conditions above 5°C out of direct sunlight. Do not allow to freeze.
Colour	Grey
Volatile organic compound (VOC) content	Low VOC - 1.98 g/L (SCAQMD method 304-91)

APPLICATION INFORMATION

Consumption	16.6m ² per coat
Layer Thickness	Davco® K12 WPM is designed to be applied in a minimum 2 coats. Each coat shall be applied at a wet film thickness of 0.75mm per layer. The minimum dry film thickness achieved in 2 coats shall be 1.0mm
Applied Product Ready for Use	6-8 hours after final coat. Drying times may be slower or faster than specified due to site, environmental and other factors beyond the control of the manufacturer.

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.

LIMITATIONS OF USE

- Do not apply in temperature 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 or dilute the liquid, it is supplied ready to use.
- Do not use K12 WPM in areas of continuous water ponding or 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 K12 WPM. Contact Parex for product recommendation in areas where negative hydrostatic pressure exists.
- Protect contents of pail from excessive heat, and freeze/thaw prior to use
- Do not use K12 WPM in commercial kitchen, hospital or other application that will require frequent use of strong cleaning chemicals.
- Do not use Davco® K12 WPM as an exposed waterproofing membrane.

IMPORTANT CONSIDERATIONS

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

EQUIPMENT

- Paint brush
- Short - Medium nap paint roller

SUBSTRATE 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 Sika high strength mortar (Lanko 136 Rapid patching mortar).

SUBSTRATE QUALITY / PRE-TREATMENT

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 thoroughly 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

- Newly rendered walls or screeds 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 waterstop angles and metal drainage flanges

- All metal surfaces must be totally free of rust
- Prime metal surfaces with a SikaTile 015 Prep n Prime and allow to dry

Cracks - NOT subject to movement

- Small hairline cracks, up to 1mm wide, may be filled by the first application of K12 WPM
- For cracks / joints wider than 1mm, a joint filler such as Sika neutral cure silicone bond breaker should be applied along the length of the crack prior to the application of K12 WPM Cracks / Joints - subject to movement
- All cracks / joints, irrespective of their width, must be filled firstly with Sika neutral cure silicone 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 Sika neutral cure silicone 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, 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 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

Timber Surfaces

- Timber substrates shall be oversheeting with a suitable fibre cement sheeting or reinforced screed. 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

- 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 wall / wall junctions and secure into place with polyethylene / polypropylene tape
- When using Sika neutral cure silicone bond breaker, apply the bead into the corner and smooth out to form a 12mm cove in the corner and around any penetrations
- When using a connector sealant use Sikaflex fillet.
- Allow bond breaker and connector sealant to cure before subsequent application of membrane.

APPLICATION

Davco® K12 WPM shall be applied in a minimum 2 coats with a paint brush or short to medium nap paint roller.

Ensure the Davco® K12 WPM is applied at a wet film thickness of 0.75mm per coat.

Allow each coat to dry prior to subsequent coats.

Davco® K12 WPM shall dry to a minimum dry film thickness of 1.00mm.

Protect from the ingress of water and moisture until the membrane dries.

CLEANING OF TOOLS

Tools and equipment can be cleaned with water prior to the membrane drying.

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.

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Product Data Sheet

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