Davco

Product Data Sheet

K12 WPM

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
- Available in blue

PACKAGING

Available in a 17KG pail

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 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.

PRODUCT INFORMATION

AS 4858 Classification

AS/NZS 4858: Class III membrane

VOC Content

Low VOC - 1.98 g/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 1.15L/m^2 for walls and 1.50L/m^2 for floors. A 17KG pail will cover approximately 12m^2 of walls or 9m^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 1.50L/m^2 for floors. A 17KG pail will cover approximately 9m^2.

Curing Time

6-8 hours at 22°C after final coat

LOW VOC CLEAR CHOICE | we are ECO SMART FOR A BETTER ENVIRONMENT | TILED & TESTED SINCE 1972 PROVEN QUALITY | PRODUCT PERFORMANCE 10 YEARS GUARANTEED | MADE IN AUSTRALIA

PAREX
Building expertise, together

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

- 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 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 K12 WPM
- For cracks / joints wider than 1mm, a joint filler such as K5 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 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, 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 Parex 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 Parex 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

- 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 K5 Bond Breaker, apply the bead into the corner and smooth out to form a 12mm cove in the corner and around any penetrations
- Allow to cure for 24 hours before subsequent application of membrane

General Application

- K12 WPM requires no mixing. Apply directly from the pail. Use a thick brush or a short nap roller to apply the first coat of K12 WPM 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 K12 WPM 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 K12 WPM can be cleaned up with water while it is still wet

PRECAUTIONS

Safety

- SDS is available from **parexdavco.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 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.
- Do not use K12 WPM in commercial kitchen, hospital or other application that will require frequent use of strong cleaning chemicals.
- Protect contents of pail from excessive heat, and freeze/thaw prior to use

Specific

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

TECHNICAL DATA

TECHNICAL DATA	K12 WPM
Appearance	Blue
Drying time per single coat at 22ºC	6-8 hours
Water vapour transmission rate	2.659/g/m²/24hr
water absorption (AS 3358.1)	2.16%
Elongation	>300%
Tensile strength	1.3MPa
Adhesion to concrete	2.1MPa
Shore A hardness	78
Pencil hardness test (ASTM D 2240)	4B
Shelf life when stored unopened in elevated, cool, dry location	12 months

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

Certified System™
Quality
ISO 9001
SAI GLOBAL

ParexGroup 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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