

# Davco



## Product Data Sheet

# Dampfast



A grey, flexible, 2 part,  
Class II waterproofing  
membrane



## 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. Ideal for use in areas susceptible to ponding such as swimming pools and spas.

### Areas

Suitable for interior and exterior applications. Commercial and domestic walls and floors including shower recesses, laundries, terraces, balconies, concrete roofs exposed to light foot traffic, water tanks, cement toppings and planter boxes.

## FEATURES & BENEFITS

- Non-flammable
- Eliminates the need for a reinforcement layer
- Cures in 6-8 hours
- Can be used over 24 hour screeds
- Ideal for swimming pools and spas

## PACKAGING

Part A available in a 20kg bag

Part B available in a 10L pail

### Kits Available

10L kit: 10L pail + 20kg bag

## PRODUCT INFORMATION

### CSIRO Appraisal

#236

### VOC Content

Low VOC - Specification for V2 IEQ-13, V1.1 IEQ-11

### Coverage

20kg bag of Davco Dampfast powder (Part A) mixed with 10 litres of Davco Dampfast liquid (Part B) covers approximately 12m<sup>2</sup> (when applied at a dry film thickness of 1.5mm)

### Drying Time

6-8 hours at 20°C



MADE IN AUSTRALIA



## DIRECTIONS FOR USE

- A test area should be undertaken to ensure suitability

## SURFACE PREPARATION

### General

- 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

### 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

### Render

- New rendered surfaces must have a wood float finish and be allowed to cure for at least 24 hours

### Lightweight Blocks

- Prime the surface with 2 coats of Davco Ultraprime

### 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 Dampfast
- For cracks / joints wider than 1mm, a joint filler should be applied along the length of the crack prior to the application of Dampfast 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 Davco 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 ParexGroup 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 ParexGroup for more information on an appropriate screed mix should this be required

## MIX PREPARATION

### Mix Process

1. Dampfast is a 2 part waterproofing membrane for onsite mixing.
2. Each 20kg of Dampfast powder requires 10L of Dampfast liquid, or 4kg powder requires 2L of liquid by weight.
3. The mixing ratio by volume is 1.6 parts powder to 1 part liquid.
4. Add powder slowly into the liquid while mechanically stirring to ensure proper mixing. Always add powder to liquid.
5. Allow the mix to stand for 5 minutes and then re-stir before using.

| SITUATION / REQUIREMENT | MIX REQUIREMENTS PER 10L DAMPFAST LIQUID |
|-------------------------|--|
| General applications    | 20kg of Dampfast powder                  |

## APPLICATION

### Priming

- All surfaces, especially porous surfaces should be primed using Ultraprime. This can be applied via brush, roller or airless spray to cover the substrate. One litre of Ultraprime will cover approximately 8-10m<sup>2</sup> of surface – depending on the porosity and texture. Allow the primer to dry for approximately 30 minutes prior to application of the membrane
- Prime all PVC with Plumbers Primer

### 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 wall / wall junctions and secure into place with polyethylene / polypropylene tape
- When using K5 Bond Breaker as a bond breaker, apply the bead into the corner and smooth out to form a 35mm cove in the corner
- Allow to cure for 24 hours before subsequent application of membrane

### General Application

- Use a thick brush or a short nap roller to apply the first coat of Dampfast on the area to be waterproofed
- In any one coat the wet thickness must not exceed 2mm, but it must be greater than 1mm
- Allow the first coat to dry for approximately 45 minutes at 20°C. Burst any air bubbles before applying the 2nd coat at 90° to the first coat
- Apply a third coat only if necessary or required to do so
- The use of Fibreglass matting is not recommended, as it affects the product's ability to cater for movement
- Allow the final coat to dry for at least 6-8 hours

**Note:** At temperatures below 20°C both the drying and curing time of the Dampfast will be increased. At temperatures above 20°C the drying and curing time and pot life of the Dampfast will be reduced

### Drain Application

- Prime inside and around the drain as per priming instructions.
- Apply the first coat of Dampfast in and around the drain. Allow the first coat to dry for approximately 45 minutes 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. Allow to dry 6-8 hours at 20°C after final coat

### Ponding

- If pond testing is required, ensure the membrane is allowed to cure for a minimum of 7 days before pond testing

### Clean-up & Return to Service

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

## PRECAUTIONS

### Safety

- SDS is available from [www.davcoaustralia.com.au](http://www.davcoaustralia.com.au)

### General

- Do not allow the liquid or powder components to freeze
- Do not apply if the temperature is in excess of 35°C or less than 5°C
- Delay external applications when inclement weather is imminent

### Specific

- Once applied the Dampfast must not be exposed to intermittent water for at least 2 days, and at least 7 days for ponding or immersed situations
- Do not thin the liquid, it is supplied ready for use
- Do not add sand or cement to Dampfast as this will reduce flexibility and can cause cracking
- Do not apply Dampfast too thickly in wall and floor junctions as it reduces the flexibility of the product
- Do not use where negative hydrostatic pressure is evident (ie: rising damp), as it affects the bond of Dampfast. Contact Sika Australia for product recommendation in areas where negative hydrostatic pressure exists
- For other uses not mentioned in these instructions, please contact Sika Australia

## TECHNICAL DATA

| TECHNICAL DATA  | DAMPFAST                    |
|---|-----------------------------|
| Appearance  | Grey powder<br>White liquid |
| Coverage 20kg/10L (when applied at a dry film thickness of 1.5mm) | 12m <sup>2</sup>            |
| Specific gravity of mix   | 1.7                         |
| Pot life  | 2 hours                     |
| Drying time   | 6-8 hours                   |
| % Elongation (7 day dry)  | 120%                        |
| 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

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Quality  
ISO 9001



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

### Sika Australia Pty Ltd

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