

# DAMPFIX GOLD

## WATERPROOFING

23 November 2018

### YOUR SMART ADVANTAGES

- Class 3, high elasticity
- Fast drying
- Recoat in 2 hours @ 20°C & 50% RH
- Early access for following trades
- Tile next day in most conditions
- May be tiled directly using approved Bostik tile adhesives
- Reinforced with clump free fibers
- No mixing required
- High resistance to detergents & bleach
- Will not re-emulsify after curing
- Does not embrittle with age
- Excellent adhesion to concrete; rendered masonry; wet area plasterboard; FC sheet & plywood
- Can be applied to damp substrates, i.e. no free water
- Brush, roller or trowel applied
- Flood Test in 72 hours

### DESCRIPTION

Bostik Dampfix Gold is a one part, highly elastic, Class 3, water-based polyurethane waterproofing membrane system that meets the requirements of AS3740 by complying with AS/NZ 4858.

Bostik Dampfix Gold waterproofing membrane system is specifically formulated for application on graded substrates that provide positive falls to drainage outlets. Overlaying tiling systems must comply with Guide to the Installation of Ceramic Tiles - AS3958.1

This is a 2-coat system applied over primed porous & non-porous substrates. It is not recommended as a membrane system in immersed applications (such as pools or spas)

### USES

- As a waterproofing membrane to internal wet area shower, bathroom, kitchen, laundry & toilet areas to AS/NZ 3740
- As a waterproofing membrane to external balconies, rooftops & podium levels to AS/NZ 4654.2
- All applications to be covered by tile or other surface wearing and protective systems by following trades
- Suitable for concrete; cement rendered masonry; FC sheeting; water resistant plasterboard; and structural plywood (Type A Stamped "PAA JAS-ANZ" to AS/NZS2269-2004) substrates

### PRODUCT CHARACTERISTICS

Colour	Gold or Grey
Appearance	Smooth paste
Packaging	15L & 4L pails
Specific Gravity	Approx. 1.3kg/L
Volume Solids	Approx. 60%
2mm Crack Bridging	Pass
Flammability	Non-flammable
Membrane Rating	Class 3
Drying Time per coat	2 hours @ 23° C & 50% RH (minimum of 2 coats)
Final drying Time	24 hours @ 23° C & 50% RH (after last coat)
Shore "A" Hardness	Approx. 65
Moisture Vapour Transmission Rate	1.24 grams / m2 / 24hours
Tensile Strength (7 days)	1.5 - 2.0 MPa
Elongation	>900%

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## SURFACE PREPARATION

- Read precautions prior to applying any component of the waterproofing system
- Commencement of membrane system installation shall be taken as acceptance of the substrate suitability and preparation by the applicator
- Check that the surface of all substrates to be waterproofed are: structurally sound, clean, dry, or damp with no free surface water, smooth and free of voids & protrusions, free from oils, grease, curing compounds, coatings, adhesive residues and are uncontaminated by preceding trade activities
- Check that all composite substrates, such as wall & floor sheets are fully supported and installed to the manufacturer's instructions
- Where platform floor sheeting, in particular particleboard, is installed check manufacturer's specification for suitability in wet area applications and ensure that protective coatings do not impair membrane adhesion
- New concrete and render must have cured for a minimum 28 days.
- Sand & cement screeds and polymer modified renders must have cured for a minimum 7 days
- Substrates that are not smooth or free of voids and protrusions must be ground and vacuumed clean. All remaining voids must be repaired using Bostik UL-Ultrafine, making sure to follow instructions for preparation, application and curing time. Refer to Bostik UL-Ultrafine Technical Data Sheet
- Bostik Multiprime must be applied as a primer coat on all applications to porous substrates, e.g. concrete, screeds, renders. Refer Bostik Multiprime Technical Data Sheet
- Bostik N40 Primer must be applied using "2 cloth method" on all applications to dry rigid plastic & metallic non-porous substrates, e.g., UPVC drainage outlets and penetrations; aluminium angle water stops, brass, copper and galvanised penetrations, stainless steel drains & gutters etc. Refer Bostik N40 Technical Data Sheet
- 2 coats of Bostik Moisture Seal must be used to seal concrete slabs if subjected to hydrostatic head of pressure from the negative side. Bostik Moisture Seal must be clean, dry and smooth immediately prior to the application of Bostik Dampfix Gold
- Refer Bostik Moisture Seal Technical Data Sheet
- Membranes should not be applied until all preparation steps have been completed.
- Bostik Dampfix Gold is not recommended for use in swimming pools, ponds or spas

## APPLICATION

### Moist or Damp Surfaces

- Membrane must be applied to a primed substrate
- Multiprime can be applied to damp porous substrates, i.e. with no free water on the surface
- Multiprime must be used as a primer coat to porous substrates, e.g., concrete, renders, FC sheet, water resistant plasterboard & external grade plywood
- Dampfix Gold is not a vapour barrier and is not designed to stop a negative hydrostatic head of pressure. Use Bostik Moisture Seal.

### Bond Breaker & Membrane Installation

- Internal wet area installation must comply with the minimum requirements of AS/NZ3740 Section 3, "Installation". As a guide, refer pages 12 to 33
- External wet area installation must comply with the minimum requirements of AS/NZ4654.2, Section 2, "Design and Installation". As a guide, refer pages 7 to 30
- When installing bond breakers use Bostik's recommended sealants
- Bond breaker is to be installed over the dry primer coat where a bond breaker joint is required, e.g. to internal corners and changes in direction of substrate plane, such as wall/floor; wall/wall; hob/wall junctions, pipe penetrations, tap bodies, water stops, drainage outlets or similar
- Bond breaker joints must be a minimum 12mm x 12mm coved bead of sealant applied by caulking gun continuously into all changes of substrate plane, such as, wall/floor, hob/floor, hob/wall and wall/wall corners to the minimum termination height required by AS/NZ3740 or AS/NZ4654.2 as applicable
- The sealant must bridge all gaps and holes with a minimum 6mm contact onto the adjacent substrates
- All bond breaker joint sealant profiles must be a minimum 6mm in depth at the mid-point of the joint
- Substrate gaps at drainage outlets, flashings, and water stops, nail/screw holes etc must also be sealed using sealant prior to membrane application
- Applied sealant must be tooled around fittings and at all changes of substrate plane to a minimum 12mm x 12mm coved joint. The sealant must be a minimum 6mm in depth at the mid-point of the bond breaker joint and extend a minimum 6mm on either side of the joint or gap
- Apply membrane as soon as the bond breaker joint can be over coated without deformation of the coved sealant profile

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## Application of the Membrane

- Can be applied using a brush, roller or trowel
- Should not be applied in excess of 2mm thick per coat
- This is a 2-coat system
- A wet film gauge should be used to regulate adequate membrane coverage during application of each coat

## Membrane Protection

- Membrane should be protected throughout the application process and during the initial 24-hour cure period by the placement of signs and barriers to deny access by following trades
- Further temporary protection sheets must be installed securely, to protect the cured dry film from damage by following trades, until a protective screed or finished floor system is installed.

## Membrane Recoating and/or Repair

### Recoating

- The surface must be cleaned free of all tile adhesive residue, surface dust and any form of contamination or substrate irregularity
- The surface of membrane must be washed down with diluted detergent and water, thoroughly rinsed and allowed to dry.

### Repairing

- The adjacent Dampfix Gold membrane must be sound with minimum dry film thickness of 0.9 mm that is fully adhered to the substrate
- Membrane must be thoroughly cleaned of all foreign material and left free of all cleaning agent residue, dust or contamination
- Ensure that any exposed porous and non-porous substrates are correctly prepared, primed and sealed
- Apply 2 coats of membrane as per "Coverage" instructions
- Ensure that the membrane repair overlaps the existing membrane by a minimum 100mm
- A consistent minimum 0.9 mm dry film thickness is required over both previously coated and uncoated repair areas

## Cracks & Joint Sealing

### CONCRETE & MASONRY SUBSTRATES

- Static cracks up to 4mm in width, i.e. cracks that do not move or continue to propagate, must be filled with Bostik UL-Ultrafine after substrate priming and prior to the first full coat of Bostik Dampfix Gold
- Cracks greater than 2mm that are subject to movement or propagation must be referred to the builder or engineer for structural

assessment and method of rectification to perform as an expansion joint

- Expansion joints must be a minimum 6mm in width and require a backer rod installed prior to the installation of a suitable sealant (see note on page 2) at a width: depth ratio of 2:1. See "Expansion Joints" below.

## FLOOR & WALL SHEET JOINTS

- All floor and wall sheets must be installed to sheet manufacturer's specification and primed with Bostik Multiprime
- Internal or external sheet floor systems, suitable for wet area applications, require sealant application to seal sheet joints at the time of installation to comply with manufacturer's instructions. The waterproofing applicator must confirm that the sealant used is compatible with all Bostik Dampfix Gold membrane system components
- If polyurethane sealants are used into floor sheet joint installation, allow for a minimum of 7 days to cure prior to the application of the membrane
- All sheet joints must be isolated from the membrane by a min 12mm wide bond breaker tape that covers the entire width & length of the sheet joint
- As floor sheet joints are more prone to movement over joist supports, apply an extra 750 micron (0.75 mm) wet coat of Bostik Dampfix Gold extending a minimum 35mm either side of the bond breaker tape. A further 2 full coats, at 750 microns each, must be applied to the remaining area to be waterproofed

## EXPANSION JOINTS

- All expansion joints must be isolated from the membrane by a minimum 12mm wide bond breaker tape that covers the entire width & length of the joint
- An extra 750 micron (0.750 mm) wet coat of membrane extending a minimum 35mm either side of the bond breaker tape must be applied as an extra coat. A further 2 full coats, at 750 microns wet coat each, is required to the remaining area to be waterproofed.

## Priming

### Porous Substrate

- A porous or absorbent substrate will allow a bead of water to easily soak into, and wet out the surface of the substrate
- To avoid pin holing Bostik Multiprime must be stirred and not shaken if colour separation is evident. Colour separation will not affect the performance of Bostik Multiprime
- Bostik Multiprime must be applied as a primer coat on all Bostik Dampfix Gold applications to porous substrates
- Refer Bostik Multiprime Technical Data Sheet.

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## Non-Porous Substrate

- A non-porous or impervious substrate will cause a bead of water to be retained on the surface of the substrate as a raised droplet. The droplet does not easily soak into the surface of the substrate
  - Concrete that is overworked or burnished at the time of placement can present, when cured, as a non-porous substrate that will not easily absorb a bead of water. Mechanical abrasion, such as captive shot blasting or vacuumed grinding is required to open substrate pores prior to the application of Bostik Moisture Seal
  - Rigid plastic and metallic substrates require Bostik N40 primer applied using the “2 cloth method” e.g., uPVC drainage outlets & penetrations, aluminium angle water stops, brass, copper or galvanised penetrations, stainless steel drains & gutters etc. Refer Bostik N40 Technical Data Sheet

## “Two Cloth Method”

- Dampen a clean & dry cloth with N40 primer and spread evenly over the non-porous substrate using a cleaning/rubbing action
  - With a second clean & dry cloth, immediately wipe all primer residues off with a buffing action
  - Allow the substrate to dry for a minimum of 5 minutes before installing a suitable sealant (see note on page 2) and/or Bostik Dampfix Gold membrane
  - Do not leave the primer longer than 4 hours before applying sealant/membrane
  - Re-prime if 4 hours has elapsed without applying sealant/membrane
  - Clean & re-prime if the primed surface is contaminated with excavation soil, water, condensation, dust or other contaminants before sealant or membrane can be applied
  - NB: For pre-treated surfaces, contact Bostik Technical Services for advice.

## PAINTABILITY

Bostik Dampfix Gold is paintable. Refer to paint supplier's recommendations.

## COVERAGE

This will vary with the porosity of the substrates. Two coats are recommended to get the optimum performance.

### For floors

A minimum dry film thickness of 0.9 mm is required. 15 Litre pail will cover approximately 10 m<sup>2</sup> (based on two coats). 4 Litre pail will cover approximately 2.6 m<sup>2</sup>

### For walls

A minimum dry film thickness of 0.6 mm is required. 15 Litre pail will cover approximately 15 m<sup>2</sup>. 4 Litre pail will cover approximately 4 m<sup>2</sup>.

	Thickness per coat		Total dry film thickness (2 coats)
	Wet film	Dry film	
Floors	0.75 mm	0.45 mm	0.9 mm
Wall	0.5mm	0.3mm	0.6mm

	Theoretical coverage		Per unit
	per coat	for 2 coats	
Floors	20 m <sup>2</sup>	10 m <sup>2</sup>	15 L Pail
Wall	30 m <sup>2</sup>	15 m <sup>2</sup>	15 L pail

## CLEANING

Warm soapy water will remove Bostik Dampfix Gold from tools & equipment prior to full cure.

## STORAGE AND SHELF LIFE

Store between 5°C and 30°C. If stored, unopened within these temperature ranges, this product has a shelf life of 12 months. Protect from excessive heat, moisture and freeze/thaw

## IMPORTANT NOTES

- The following instruction steps as detailed in this Technical Data Sheet may not be applicable in every application. They are provided as a guide to meet the requirements of AS/NZ3740 and AS/NZ4654.2
  - It is recommended that the installation should be carried out by professional, licensed applicators holding a current Certificate 3 in Waterproofing
    - Bostik Technical Division must approve any modification or variances to this technical data sheet in writing followed by the issuance of an amended Technical Data Sheet
    - Wherever appropriate, the application must comply with AS/NZ 3740 'Waterproofing of Internal Wet Areas in residential buildings' & AS/NZ 4654.2 "Waterproofing membrane systems for exterior use – Above ground level"
      - This product is specially formulated for brush, roller or trowel application to both small and large areas
        - A wet film gauge must be used regularly to ensure that minimum wet film builds are achieved for each coat
        - All vertical terminations, including perimeter walls, hobs and penetrations etc must be of adequate height to satisfy AS/NZ 3740 for

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internal applications & AS/NZ 4654.2 for external applications

- Apply bond breaker joint to all horizontal/vertical junctions, e.g. wall/floor, wall/wall, hob/ floor, hob/wall & shower set downs etc, prior to all membrane applications (see note on suitable sealants on pg 2)
- Allow 72 hours before flood testing the installed Bostik Dampfix Gold system.

## Note on Suitable Sealants

Suitable sealants for use as bond breakers (in order of preference and performance) include:

- V4 Titanium
- V70
- Bostik 6S
- Bostik 616

Correct bond breaker selection and installation is vital to overall membrane performance. Using an unsuitable sealant can increase the risk of failure and must be avoided. Contact Bostik Smart Help for advice if unsure or if considering products not listed above.

## PRECAUTIONS IN USE

- Must not be installed directly on wet, contaminated, or friable substrates
- Regular checks with a wet film gauge during the application of each coat are advised
- Do not apply any component of the system when air or substrate temperatures are below 5° C
- Cold damp conditions will adversely affect application properties and slow rate of curing
- Do not apply Bostik Dampfix Gold when air and substrate temperature is greater than 35°C or below 5°C
- Membrane should not be used as an exposed finish or as top coating exterior membrane
- When used in areas subject to ambient conditions below freezing special installation precautions must be taken. Contact Bostik for advice before commencing work
- All 4654.1 external membrane applications covered with a reinforced tile bed or screed must be separated from the membrane by a minimum one layer of 200um plastic sheet as a separation layer in accordance with AS3958.1 - 3.3.2.3

- The installation of protection board and ballast, such as river pebbles or similar loose laid unbound coverings, must be isolated from the membrane by a compatible drainage cell and filter fabric system
- Must not be applied directly over lightweight concrete
- Hobs constructed of autoclaved aerated blocks, e.g. Hebel, must be saturated with 2 coats of Multiprime to consolidate and seal the substrate. This is to prevent pin holing of the membrane and provide enough strength to support tiling of the hob
- Autoclaved aerated block walls must be rendered prior to the application of the waterproofing system
- Should not be used in constantly submerged applications such as swimming pools, ponds & spas
- Not designed to withstand negative side substrate head of pressure
- Use only Bostik's recommended sealants. Use of other sealants will significantly increase the risk of failure
- Any intended application of membrane outside of recommended installation should be referred to Bostik Technical Services
- Protect contents of pail from excessive heat, and freeze/thaw prior to use
- Contact Bostik prior to work commencing if there is any uncertainty regarding suitability, installation or any other matters related to the system (including bond breakers)

Complete details on each of the products mentioned are available on the product Safety Data Sheets. To ensure no harm is caused to persons using Bostik products, it is recommended that all concerned read the appropriate Safety Data Sheets. Visit [www.bostik.com/au](http://www.bostik.com/au) for copies.

## PRODUCT DETAILS

Code	Name	Size
30800489	DAMPFIX GOLD GOLD	15L
30803384	DAMPFIX GOLD GREY	15L
30613910	DAMPFIX GOLD GREY	4L

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**For emergency information contact the Poisons Information Centre, phone 131 126 or the Emergency Response Service, phone 1800 033 111.**



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