

Two Component Rapid setting Waterproofing Membrane

#### **DESCRIPTION**

Two component waterbased, acrylic modified cement-based, Class 3 waterproofing membrane system that meets the requirements of AS3740 by complying with AS/NZ 4858.

This Technical Data Sheet may be revised, as appropriate, to comply with changes to relevant Australian Standards, reflect changes in Industry best practice in waterproofing procedures or include improvements to current technologies.

The Applicator is advised to reference the latest Technical Data Sheet issue, before commencing application, by visiting www.bostik.com.au and following the Technical Data sheet links or by contacting Bostik Customer Service on 1300 364 710.

This waterproofing membrane system 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 (AS 3958.1).

Bostik Primeseal Immersed Rapid Waterproofing Membrane is a 2-coat system, to be applied over primed "porous & non-porous" substrates. It • As a waterproofing membrane requires mixing of Part A & B prior to application.

Bostik Primeseal Immersed Rapid Waterproofing Membrane is suitable for use in immersed applications (such as pools and spas).

#### **Features**

- Class 3, high elasticity.
- Fast drying. Recoat in 1-2 hours @ 22° C & 50% RH. Flood test after 24 hours @ 22°C / 50% RH.
- Can be tiled after 4 hours @ 22°C / 50% RH in non-critical areas.
- Compatible for tiling with Bostik ASA tile adhesive system.
- Excellent adhesion to concrete; rendered masonry; wet area plasterboard; FC sheet & plywood. Can be applied to damp substrates (provided no free surface water)
- Brush, roller or trowel applied.
- Designed for commercial and residential application

#### **Recommended Uses**

- under tile to internal wet area shower, bathroom, kitchen, laundry & toilet areas when installed to AS/NZ 3740.
- As a waterproofing membrane under tile or other wearing surface systems to external balconies, rooftops & podium levels when installed to AS/NZ 4654.2.
- As an exposed waterproofing membrane to external applications subjected to light pedestrian traffic only.
- Suitable for concrete; cement rendered masonry; FC sheeting; water resistant plasterboard; and structural plywood (Type A Stamped "PAA JAS-ANZ" to AS/NZS 2269-2004) substrates.



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#### **Application Instructions**

#### **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 assist in meeting the installation requirements of AS/NZ3740 and AS/NZ4654.2
- It is recommended that the installation be carried out by professional, licensed applicators holding a current Certificate 3 in Waterproofing.
- Bostik Technical Department 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 installation 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 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 internal applications & AS/NZ 4654.2 for external applications.
- The minimum film build requirements for vertical surfaces are identical for horizontal applications and must be applied without slump or deformation when cured.
- Apply **V70 Silicone** as a 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.
- Allow 24 hours @ 22°C / 50% RH before flood testing the installed system. Inspect the joints or other critical areas have been fully dried prior to flood testing.
- Critical areas where the membrane is applied greater than 1mm wet film or over bond breakers and other impermeable substrates longer drying time is required.

#### **Substrate Preparation**

- Read precautions prior to applying any component of the membrane system.
- Commencement of membrane system installation shall be taken as acceptance of the substrate suitability and preparation by the applicator.
- Check that the surfaces of all substrates to be used are structurally sound, clean, dry or damp with no free surface water. Must be smooth and free of voids & protrusions, 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



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- **ASA Multiprime** must be applied as a primer coat on all applications to porous substrates, e.g. concrete, screeds, renders. Refer **ASA 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 tap bodies, copper and galvanised penetrations, stainless steel drains & gutters etc. Refer to Bostik N40 Primer Technical Data Sheet.
- 2 coats of **Bostik Moisture Seal** must be used to seal concrete slabs subject to a hydrostatic head of pressure from the negative side. **Bostik Moisture Seal** must be clean, dry and smooth immediately prior to membrane application. Refer to **Bostik Moisture Seal** Technical Data Sheet.
- Membranes should not be applied until all preparation steps have been completed.
- Bostik Primeseal Immersed Rapid Waterproofing Membrane is recommended for use in swimming pools, ponds and spas when covered by suitable tile finishes bonded with suitable ASA tile adhesives.

#### **Cracks & Joint Sealing**

#### **Concrete & Masonry Substrates**

- Static cracks up to 2mm in width, i.e. cracks that do not move or continue to propagate, must be filled with Bostik Primeseal Immersed Rapid Waterproofing Membrane or Bostik UL-Ultrafine after priming with ASA Multiprime, and prior to the first full coat of membrane.
- Static cracks greater than 2mm but less than 4 mm in width, i.e., cracks that do not move or continue to propagate, must be filled with **Ultrafine Finish** after priming with **ASA Multiprime**, and prior to the first full coat of membrane. Static cracks greater than 5mm must be filled with **Bostik UL-Rapidset**.
- 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 V70 Silicone at a width: depth ratio of 2:1. See "Expansion Joints" below.

#### Floor & Wall Sheet Junction

- All floor and wall sheets must be installed to sheet manufacturer's specification and primed with **Multiprime**.
- Internal or external sheet floor systems, suitable for wet area applications, require sealant/adhesive application to seal sheet joints at the time of installation to comply with manufacturer's instructions. Where appropriate, the Waterproofer must confirm that the sealant used is compatible with **Bostik Primeseal Immersed Rapid** Waterproofing Membrane.
- Floor sheet joints that use Polyurethane sealants at installation must be cured for a minimum 7 days prior to the application of the membrane.
- All sheet joints must be isolated from the membrane by a min 25mm wide bond breaker tape that covers the entire width & length of the sheet join.
- As floor sheet joints are more prone to movement over joist supports, apply an extra 900-micron (0.9 mm) wet coat extending a minimum 35mm either side of the bond breaker tape. A further 2 full coats, at 900 microns each, must be applied over the entire area to be waterproofed.



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#### **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 900-micron (0.9 mm) wet coat extending a minimum 35mm either side of the bond breaker tape must be applied as an extra coat. A further 2 full coats, at 900 microns wet coat each, is required to the entire 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.
- Primer must be used prior to the application of the membrane to avoid pinholes.
- **ASA Multiprime** must be stirred and not shaken if colour separation is evident. Colour separation will not affect the performance of **ASA Multiprime**.
- **ASA Multiprime** must be applied as a primer coat on all applications to porous substrates.
- Refer to **ASA Multiprime** Technical Data Sheet.

#### **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 become nonporous when cured. Mechanical abrasion, such as captive shot blasting or vacuumed grinding is required to open substrate pores prior to the application of ASA Multiprime primer.
- **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 tap bodies, copper or galvanised penetrations, stainless steel drains & gutters etc. Refer to **Bostik N40 Primer** Technical Data Sheet.
- "Two Cloth Method" -.
  - o Dampen a clean & dry cloth with **Bostik 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.
  - o Allow the substrate to dry for a minimum of 5 minutes before installing **V70 Silicone** sealant and/or **Bostik Primeseal Immersed Rapid Waterproofing Membrane.**
  - o Do not leave the primer longer than 4 hours before applying sealant/membrane.
  - o Re-prime if 4 hours has lapsed without applying sealant/membrane.
  - Clean & re-prime if the primed surface is contaminated with excavation spoil, water, condensation, dust or other contaminates before sealant or membrane can be applied.

Note: For pre-treated surfaces, contact Bostik Technical Service for recommendation.



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#### **Application**

#### **Moist or Damp Surfaces**

- Multiprime can be applied to damp porous substrates, i.e. with no free water on the surface.
- **N40 Primer** must **not** be applied to a damp non-porous substrate.
- **Bostik Primeseal Immersed Rapid Waterproofing Membrane** is not a vapour barrier and is not designed to stop a negative hydrostatic head of pressure. Where a substrate is subjected to a hydrostatic head of pressure from the negative side **Moisture Seal** must be applied and be allowed to fully cure before the membrane application. Refer to **Bostik Moisture Seal** Technical Data Sheet.

#### **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.
- **V70 Silicone** 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 and the like.
- 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 V70 Silicone sealant prior to **Bostik Primeseal Immersed Rapid** Waterproofing Membrane application.
- Where applied, **V70 Silicone** must be spatula tooled smooth 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 **Bostik Primeseal Immersed Rapid** Waterproofing Membrane as soon as the bond breaker joint can be over coated without deformation of the coved sealant profile.

#### Mixing

- This is a 2-part waterproofing membrane. It must be mixed prior to application.
- The 20kg powder Part B (2 x 10kg bags) requires 20 litres of Part A liquid.
- Stir Part A liquid component to ensure uniform consistency before use adding Part B powder.
- The Mixing Ratio is 1:1 by weight.
- Add powder into the liquid while mixing liquid with a mechanically powered high shear stirrer.
- Always add powder to liquid to avoid lumps and incomplete mixing.
- Continue mixing until uniform and lump free is achieved.
- Do not mix by hand.



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#### Application of the Membrane

- This is a 2-coat system.
- Can be applied by brush, roller or trowel.
- Each coat must be applied at a uniform thickness of 0.9 mm (minimum). 2 coats will achieve a total wet film thickness of 1.8 mm.
- It should not be applied in excess of 2mm thick per coat.
- A wet film gauge should be used to regulate adequate coverage 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 to next 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 membrane surface must be washed down with diluted **Bostik Sugar Soap**, thoroughly rinsed and allowed to dry.

#### Repairing

- The adjacent membrane must be sound with minimum dry film thickness of 1.2mm 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 **Bostik Primeseal Immersed Rapid** Waterproofing Membrane as per "Coverage" instructions.
- Ensure that the membrane repair overlaps the existing membrane by a minimum 100mm.
- A consistent minimum 1.2mm dry film thickness is required over both previously coated and uncoated repair areas. (Refer "Coverage" table below)

#### Coverage

- This is a min 2-coat system
- Each coat must be applied at 0.9 litre / m² or 900 microns (0.9 mm) thick resulting in a total wet film thickness of 1.8 mm after 2 coats.
- A minimum of 1 hour should be allowed between coats.
- The 2<sup>nd</sup> coat should be applied perpendicular to the 1<sup>st</sup> coat.
- Extra coats may be applied if required at the rate of 900 microns (0.9 mm thick) per coat.
- Do not thin with water or add fillers.
- The regular use of a wet film gauge during application is recommended to ensure correct wet film build per coat.
- The dry film thickness, after 2 coats must be a minimum of 1200 microns (1.2mm thickness).



### **Primeseal Immersed Rapid**

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- Each 20Lt + 20kg Kit will cover, depending on wastage and other site conditions:
  - o 33m² per coat.
  - o 16.5 m² for 2 coats.

Application	Wet Film Thickness	Dry Film Thickness
1 <sup>st</sup> Coat	900 microns (0.9 mm)	600 microns (0.60mm)
2 <sup>nd</sup> Coat	900 microns (0.9 mm)	600 microns (0.60mm)
Total Film Thickness after 2 coats	1800 microns (1.8 mm)	1200 microns (1.2 mm)

#### Precaution

- This is a two part system and neither component is permitted to be substituted or diluted.
- Must not be installed directly on wet (standing water), contaminated, or friable substrates.
- Minimum dry film thickness after 2 coats is 1.2 mm
- Regular checks with a wet film gauge during the application of each coat are advised.
- Do not apply 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 Primeseal Immersed Rapid** Waterproofing Membrane when air and substrate temperature is greater than 35°C or below 5°C.
- When used in areas subject to ambient conditions below freezing special installation precautions must be taken. Contact Bostik for advice before commencing work.
- Membrane is suitable for use as an exposed finish or as top coating exterior membrane on applications that are subject to light pedestrian, maintenance traffic only.
- All AS 4654.2 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 membrane system.
- **Bostik Primeseal Immersed Rapid** Waterproofing Membrane can be used in constantly submerged applications such as swimming pools, ponds and spas when covered by tiles using approved ASA tile adhesive systems.
- **Bostik Primeseal Immersed Rapid** Waterproofing Membrane is not designed to withstand negative side substrate head of pressure. Use **Bostik Moisture Seal.**
- Any intended application of membrane outside of recommended installation should be referred to Bostik Technical Services for approval.
- Protect contents of pail from excessive heat, and freeze/thaw prior to use.



### **Primeseal Immersed Rapid**

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#### **Bostik Co-Operative Test Program**

Bostik offers a service in which a programme has been established to eliminate potential field problems by pre-testing Bostik membranes with samples of the building materials to which the membrane will be applied. This service is available on large projects where pre-application testing will aid in determining the proper method to achieve optimum adhesion. Consult a Bostik representative for further information

#### **Paintability**

**Bostik Primeseal Immersed Rapid** Waterproofing Membrane is paintable. Refer to paint supplier's recommendations.

#### **Properties**

Properties			
Colour	White Liquid + Cementitious grey powder.		
Appearance when mixed	Smooth, brush/roller grade, cement grey paste		
Shore "A" Hardness	Approx 80		
Elongation	> 300 %		
Minimum Dry Film Thickness	1.2 mm after 2 coats		
2mm Crack Bridging	Pass		
Pot Life	1 hour @ 22°C / 50% RH		
Yield	33m²/coat (20L + 20kg kit) or 16.5m² for 2 coats		
Weight Solids	Approx 75%		
Packaging	1 x 20L pail (Part A) 1 x 20L pail (containing 2 x 10kg bag Part B)		

Tensile Strength	≥ 1.5 MPa	
Dry Time per coat	1-2 hours @ 22°C / 50% RH (min 2 coats)	
Dry time following Trades	4 hours @ 22°C / 50% RH	
SG	Approx 1. 4 kg/litre when mixed	
Minimum Wet Film	0.9 mm / coat Minimum 2 coats	
Membrane Rating	Class 3	
Mix ratio by Weight	1.0 part powder to	
by weight	1.0 part liquid	
Water Absorption	1.7 %	
Water		

Complies with AS3740 by meeting all requirements of AS/NZ4858

Wet Area Membranes

#### Storage & Shelf Life

12 Month shelf life when stored unopened between 5°C and 30°C. Protect from excessive heat, direct sunlight, moisture and freeze/thaw.

#### Health & Safety

SEE THE MATERIAL SAFETY DATA SHEET FOR ADDITIONAL INFORMATION. EMERGENCY INFORMATION: 1800 033 111 (ALL HOURS) MSDS can be downloaded from <a href="https://www.bostik.com.au">www.bostik.com.au</a>

#### Clean-Up

Warm soapy water will remove product from tools & equipment prior to full cure



### **Primeseal Immersed Rapid**

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#### **Packaging**

A two-component, liquid + powder system supplied in 2x 20L pails as a kit

VOC - 3 g/Lt (mixed)

voccertificate.australia@bostik.com



#### **PRODUCT DETAILS**

ITEM NO	ITEM NAME	SIZE
383333	Primeseal Immersed Rapid (liquid)	20L Pail
383325	Primeseal Immersed Rapid (powder)	2 x 10kg bags in a 20L Pail

#### **BOSTIK PRODUCT GUARANTEE**

This product comes with consumer guarantees that cannot be excluded under the Australian Consumer Law (ACL). In addition to your rights as a consumer under the ACL or other laws, Bostik guarantees the performance of this product for 10 years if the product is used within its shelf life and in accordance with the usage instructions printed on this packaging or the product's Technical Data Sheet available on our website. This 10 year guarantee specifically excludes any loss or damage caused by incorrect usage and covers the removal and replacement of the affected materials if the failure is proven to be directly related to Bostik products within the warranty period.

If you wish to make a claim under this guarantee you must within 2 weeks after first identification of damage notify us in writing using the details on this packaging.

You must provide evidence of your purchase and specify the batch number printed on the packaging. Bostik reserves the right to inspect any alleged failure and no responsibility will be accepted unless Bostik is given the opportunity to do so.

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Enquires:

Quality
ISO 9001
SAI GLOBAL

Quality endorsed ISO9001 (Thomastown site) TS16949 (Automotive

Product: Primeseal Immersed Rapid

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