

# ULTRASET® 3 in 1

# ADVANCED TRI-LINKING™ ADHESIVE, MOISTURE CONTROL AND SOUND REDUCTION MEMBRANE

## 27 May 2021

#### YOUR SMART ADVANTAGES

- 3 in 1 adhesive, moisture control and sound reduction membrane
- Thickness Control™ Spacer Technology maintains the adhesive thickness between hardwood flooring and substrate
- Extremely low moisture vapour permeability
- Superior sound control typically outperforms 3mm rubber underlay
- Anti-fracture performance can bridge cracks up to 3mm
- Zero VOC (as calculated per SCAQMD Rule 1168)
- No restriction on board width or length
- Blockade® anti-microbial protection
- Suitable over radiant heating

#### USES

- Suitable substrates include: concrete, terrazzo, ceramic tiles, timber, plywood and cement backer board
- Adheres parquet, cork, solid strip softwood, hardwood flooring, engineered flooring and bamboo flooring

## PRODUCT CODES

30615274 26kg pail

30609631 Axios 6mm V Notch Trowel

## SUPERIOR MOISTURE PROTECTION

Bostik **UltraSet® 3 in 1** has extremely low moisture vapour permeability and is not adversely affected by moisture. As a result, costly and time-consuming concrete moisture testing is not required when the slab is properly prepared, fully cured and dry to touch.

## BLOCKADE®

**UltraSet® 3 in 1** includes Bostik's Blockade® antimicrobial protection, which inhibits the growth of bacteria, mould or mildew on the surface of the cured membrane. The cured membrane resists stains and deterioration caused by moulds.

## ANTI-FRACTURE PERFORMANCE

The elastomeric properties can bridge cracks up to 3mm, which can occur in the substrate prior to or after

Installation. This superior elasticity allows the adhesive to move with the wood as it expands and contracts

with changes in humidity and temperature over the life of the floor.

## THICKNESS CONTROL™ SPACER TECHNOLOGY

**UltraSet® 3 in 1** contains Bostik's patented Thickness Control™ Spacer Technology. This propriety feature helps ensure proper membrane thickness is maintained between the hardwood flooring and substrate. Installers can use mallets to engage the tongue and groove or even walk on their work during installation process without significant reduction in the film thickness that could compromise moisture protection and sound control.

#### SUPERIOR SOUND CONTROL

**UltraSet® 3 in 1** provides a premium sound reduction barrier over the substrate that typically outperforms 3mm rubber underlay. This eliminates costs associated with the labour and materials required to transport and install these secondary acoustical sheet membranes.

SOUND REDUCTION PERFORMANCE					
Subfloor Type	Flooring Type	Ceiling Type	Result*	Test	
Concrete (200mm)	Engineered (14mm)	13mm suspended plasterboard ceiling	42	LnT,w (Insitu)	
<b>Concrete</b> (160mm)	Engineered (15mm)	13mm suspended acoustic plasterboard 250mm ceiling void 75mm 14kg/m³ glass wool insulation in cavity	49	LnT,w (Insitu)	
Concrete (250mm)	Engineered (14.5mm)	No suspended ceiling	53	LnT,w (Insitu)	
Concrete (150mm + 15mm FSC)	Engineered (14mm)	No suspended ceiling	62	LnT,w	
Concrete (152.4mm)	Engineered (9.5mm)	Suspended gypsum (15.8mm)	70	IIC	
Concrete (152.4mm)	Engineered (9.5mm)	No suspended ceiling	50	IIC	

\*Based on independent testing laboratory and in-situ results

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Residential				
Use Environments	CHEMICAL & P	HYSICAL PROPERTIES		
Use Environments  Heavy Commercial Yes Exterior No Wet Areas No Concrete Plywood Yes OSB Terrazzo Ceramic Tile Patch/Underlayment Yes Engineered Hardwood Yes Plywood Yes Cork Parquet		Residential	Yes	
Hospital   Yes		Offices/Light Commercial	Yes	
Exterior  Wet Areas  No  Wet Areas  No  Concrete  Plywood  Yes  OSB  Yes  Terrazzo  Ceramic Tile  Cement Sheet  Cement  Patch/Underlayment  Solid Hardwood  Engineered Hardwood  Bamboo  Yes  Engineered Hardwood  Yes  Engineered Hardwood  Yes  Engineered Hardwood  Yes  Parquet  Parquet  Parquet  Pilywood  Ceramic Tile, Marble, Stone Inlays 1  Cure Time 2  Light foot traffic  Normal foot traffic  None, Dry to touch  ASTM 1869 - CC Method  None, Dry to touch  Elongation  Service Temperature  -40°C to 66°C  Application Temperature  Io oc to 38°C  Ease of Trowelling  Excellent  Odour  Mild  Open/Working Time 3  60 minutes	Use	Heavy Commercial	Yes	
Wet Areas No  Concrete Yes Plywood Yes OSB Yes Terrazzo Yes Ceramic Tile Yes Cement Sheet Yes Patch/Underlayment Yes Engineered Hardwood Yes Bamboo Yes Plywood Yes Cork Yes Ceramic Tile, Marble, Stone Inlays 1  Cure Time 2 Light foot traffic 8-12 hours Normal foot traffic 12-24 hours Water Vapour Permeability 4  Concrete moisture vapour limits for subfloor moisture vapour protection:  ASTM 1869 - CC Method None, Dry to touch Elongation >100% Service Temperature -40°C to 66°C Application Temperature 10°C to 38°C Ease of Trowelling Excellent Odour Milld Application Open/Working Time 3  OSB Yes Yes Yes Pares Permeability 4 Yes Pares Permeability 4 Ves Permeability 4 Ves None, Dry to touch Touch Physical Properties Application Temperature 10°C to 38°C Ease of Trowelling Excellent Odour Milld Open/Working Time 3	Environments	Hospital	Yes	
Substrates    Concrete   Yes   Plywood   Yes   OSB   Yes		Exterior	No	
Substrates  Plywood Yes OSB Yes Terrazzo Yes Ceramic Tile Yes Cement Sheet Yes Cement Sheet Yes Cement Patch/Underlayment Yes Bamboo Yes Engineered Hardwood Yes Bamboo Yes Parquet Yes Plywood Yes Parquet Yes Plywood Yes Ceramic Tile, Marble, Stone Inlays 1  Cure Time 2 Light foot traffic 8-12 hours Normal foot traffic 12-24 hours Water Vapour Yermeability 4  Cured Physical Properties  Cured Properties  Cure Time 2 Light foot traffic 12-24 hours Normal foot traffic 12-24 hours Water Vapour Yermeability 4  Concrete moisture vapour limits for subfloor moisture vapour protection:  ASTM 1869 - CC Method None, Dry to touch Elongation Service Temperature -40°C to 66°C Application Temperature 10°C to 38°C Ease of Trowelling Excellent Odour Mild  Application Open/Working Time 3  OGO TIME SERVICE		Wet Areas	No	
Substrates  OSB Terrazzo Yes Ceramic Tile Cement Sheet Yes Cement Patch/Underlayment Yes Solid Hardwood Flooring Types  Cork Parquet Plywood Ceramic Tile, Marble, Stone Inlays¹  Cure Time² Light foot traffic Normal foot traffic Normal foot traffic Normal foot traffic 12-24 hours  Water Vapour Permeability⁴  Concrete moisture vapour limits for subfloor moisture vapour protection:  ASTM 1869 - CC Method  ASTM 2170 - RH Test Flooring Flooring Service Temperature Application  Application  Open/Working Time³  Fess Flooring Ayes  Area  Yes  Yes  Yes  Cork Yes  Yes  Yes  Yes  Nore  Nore Nore Nore Nore Touch  None, Dry to touch  Touch  None, Dry to touch  Service Temperature  -40°C to 66°C  Application Temperature  Application  Odour  Mild  Open/Working Time³  Odo minutes		Concrete	Yes	
Substrates  Terrazzo Yes Ceramic Tile Yes Cement Sheet Yes Cement Patch/Underlayment  Solid Hardwood Yes Engineered Hardwood Yes Bamboo Yes Bamboo Yes Parquet Yes Plywood Yes Plywood Yes Ceramic Tile, Marble, Stone Inlays¹ Cure Time² Light foot traffic 8-12 hours Normal foot traffic 12-24 hours Water Vapour Permeability⁴ Concrete moisture vapour limits for subfloor moisture vapour protection:  Properties  Cured Physical Properties  Cured Physical Properties  ASTM 1869 - CC Method ASTM 2170 - RH Test None, Dry to touch Light foot traffic None, Dry to touch ASTM 2170 - RH Test Properties  Application Service Temperature Application  Application Open/Working Time³ 60 minutes		Plywood	Yes	
Ceramic Tile Yes  Cement Sheet Yes  Cement Patch/Underlayment  Solid Hardwood Yes  Engineered Hardwood Yes  Bamboo Yes  Bamboo Yes  Parquet Yes  Plywood Yes  Ceramic Tile, Marble, Stone Inlays¹  Cure Time²  Light foot traffic 8-12 hours  Normal foot traffic 12-24 hours  Water Vapour Permeability⁴  Concrete moisture vapour limits for subfloor moisture vapour protection:  Properties  Cured Physical Properties  Cured Physical Properties  ASTM 1869 - CC Method None, Dry to touch  ASTM 2170 - RH Test None, Dry to touch  Elongation >100%  Service Temperature -40°C to 66°C  Application Temperature 10°C to 38°C  Ease of Trowelling Excellent  Odour Mild  Application  Open/Working Time³ 60 minutes		OSB	Yes	
Ceramic Tile Cement Sheet Cement Patch/Underlayment Solid Hardwood Fes Engineered Hardwood Fes Bamboo Flooring Types  Cork Parquet Patch/Underlayment  Cork Parquet Patch/Underlayment  Yes  Engineered Hardwood Yes Bamboo Yes Parquet Parquet Permaic Tile, Marble, Stone Inlays Pes Ceramic Tile, Marble, Stone Inlays Cure Time Light foot traffic Normal foot traffic Normal foot traffic Vater Vapour Permeability Permeability ASTM 1869 - CC Method  ASTM 2170 - RH Test None, Dry to touch Louch Elongation Service Temperature Application Temperature Fase of Trowelling Odour Application Open/Working Time  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Y	Substrates	Terrazzo	Yes	
Cement Patch/Underlayment  Solid Hardwood Yes Engineered Hardwood Yes Bamboo Yes  Cork Yes Parquet Yes Plywood Yes  Ceramic Tile, Marble, Stone Inlays¹  Cure Time² Light foot traffic 8-12 hours Normal foot traffic 12-24 hours  Water Vapour Permeability⁴ Concrete moisture vapour limits for subfloor moisture vapour protection:  Properties  Cured Physical Properties  ASTM 1869 - CC Method  ASTM 2170 - RH Test None, Dry to touch  ASTM 2170 - RH Test None, Dry to touch  Application Temperature -40°C to 66°C  Application Temperature 10°C to 38°C Ease of Trowelling Excellent Odour Mild  Application  Open/Working Time³ 60 minutes	Substitutes	Ceramic Tile	Yes	
Patch/Underlayment  Solid Hardwood Yes Engineered Hardwood Yes Bamboo Yes  Cork Yes Parquet Yes Plywood Yes  Ceramic Tile, Marble, Stone Inlays¹  Cure Time² Light foot traffic 8-12 hours Normal foot traffic 12-24 hours Water Vapour Permeability⁴ Concrete moisture vapour limits for subfloor moisture vapour protection:  Properties  Cured Physical Properties  ASTM 1869 - CC Method None, Dry to touch ASTM 2170 - RH Test None, Dry to touch Elongation >100% Service Temperature -40°C to 66°C Application Temperature 10°C to 38°C Ease of Trowelling Excellent Odour Mild  Application  Open/Working Time³ 60 minutes		Cement Sheet	Yes	
Flooring Types  Flooring Types  Flooring Types  Flooring Types  Parquet Parque		Cement	Ves	
Flooring Types  Parquet Parquet Plywood Pes		Patch/Underlayment	res	
Flooring Types  Cork Parquet Parquet Plywood Yes Ves Plywood Yes Ves Plywood Yes Ves Ves Ves Ves Ves Ves Ves Ves Ves V		Solid Hardwood	Yes	
Types    Cork		Engineered Hardwood	Yes	
Types  Parquet Yes Plywood Yes Ceramic Tile, Marble, Stone Inlays¹  Cure Time² Light foot traffic 8-12 hours Normal foot traffic 12-24 hours Water Vapour Permeability⁴ Concrete moisture vapour limits for subfloor moisture vapour protection:  Properties  ASTM 2170 - RH Test None, Dry to touch Elongation >100% Service Temperature -40°C to 66°C Application Temperature 10°C to 38°C Ease of Trowelling Excellent Odour Mild  Application  Press Press Parquet Yes Yes Yes A-12 hours Normal foot traffic 12-24 hours None, Dry 24hrs None, Dry to touch Touch None, Dry to touch None, Dry to touch Touch Service Temperature -40°C to 66°C Application Temperature 10°C to 38°C Ease of Trowelling Excellent Odour Mild Open/Working Time³ 60 minutes		Bamboo	Yes	
Plywood Yes Ceramic Tile, Marble, Stone Inlays¹  Cure Time² Light foot traffic 8-12 hours Normal foot traffic 12-24 hours Water Vapour Permeability⁴ Concrete moisture vapour limits for subfloor moisture vapour protection:  Properties  Cured Physical Properties  ASTM 1869 - CC Method None, Dry to touch ASTM 2170 - RH Test None, Dry to touch Elongation >100% Service Temperature -40°C to 66°C Application Temperature 10°C to 38°C Ease of Trowelling Excellent Odour Mild  Application Open/Working Time³ 60 minutes	Flooring	Cork	Yes	
Cured Physical Properties  Cured Physical Properties  Cured Elongation  Application  Cured Application  Cured Physical Properties  Cured Elongation  Application  Cured Physical Properties  Cured Physical Properties  Cured Physical Properties  Concrete moisture vapour limits for subfloor moisture vapour protection:  ASTM 1869 – CC Method None, Dry to touch  10°C to 38°C  Ease of Trowelling Excellent  Odour Mild  Open/Working Time 3 60 minutes	Types	Parquet	Yes	
Inlays 1  Cure Time 2  Light foot traffic 8-12 hours  Normal foot traffic 12-24 hours  Water Vapour 2  Permeability 4  Concrete moisture vapour limits for subfloor 4  Physical Properties  ASTM 1869 - CC Method None, Dry to 4  touch None, Dry to 6  Elongation >100%  Service Temperature -40°C to 66°C  Application Temperature 10°C to 38°C  Ease of Trowelling Excellent Odour Mild  Application  Open/Working Time 3 60 minutes		Plywood	Yes	
Light foot traffic 8-12 hours  Normal foot traffic 12-24 hours  Water Vapour Permeability 4 <0.4g/m2/24hrs  Concrete moisture vapour limits for subfloor moisture vapour protection:  ASTM 1869 - CC Method None, Dry to touch  ASTM 2170 - RH Test None, Dry to touch  Elongation >100%  Service Temperature -40°C to 66°C  Application Temperature 10°C to 38°C  Ease of Trowelling Excellent Odour Mild  Application  Open/Working Time 3 60 minutes			Yes	
Normal foot traffic 12-24 hours  Water Vapour Permeability 4 <0.4g/m2/24hrs  Concrete moisture vapour limits for subfloor moisture vapour protection:  ASTM 1869 - CC Method None, Dry to touch  ASTM 2170 - RH Test None, Dry to touch  Elongation >100%  Service Temperature -40°C to 66°C  Application Temperature 10°C to 38°C  Ease of Trowelling Excellent Odour Mild  Application  Open/Working Time 3 60 minutes		Cure Time <sup>2</sup>		
Cured Physical Properties  Concrete moisture vapour limits for subfloor moisture vapour protection:  ASTM 1869 - CC Method None, Dry to touch  ASTM 2170 - RH Test None, Dry to touch  Elongation >100%  Service Temperature -40°C to 66°C  Application Temperature 10°C to 38°C  Ease of Trowelling Excellent Odour Mild  Application  Open/Working Time 3 60 minutes		Light foot traffic	8-12 hours	
Cured Physical Properties  Concrete moisture vapour limits for subfloor moisture vapour protection:  ASTM 1869 – CC Method None, Dry to touch  ASTM 2170 – RH Test None, Dry to touch  Elongation >100%  Service Temperature -40°C to 66°C  Application Temperature 10°C to 38°C  Ease of Trowelling Excellent  Odour Mild  Application  Open/Working Time 3 60 minutes		Normal foot traffic	12-24 hours	
Cured Physical Properties  Concrete moisture vapour limits for subfloor moisture vapour protection:  ASTM 1869 - CC Method None, Dry to touch  ASTM 2170 - RH Test None, Dry to touch  Elongation >100%  Service Temperature -40°C to 66°C  Application Temperature 10°C to 38°C  Ease of Trowelling Excellent  Odour Mild  Application  Open/Working Time 3 60 minutes		Water Vapour	0.4.7.07041	
Physical Properties  ASTM 1869 – CC Method  ASTM 2170 – RH Test  Elongation  Service Temperature  Application  Application  Application  Open/Working Time 3  None, Dry to touch  None, Dry to touch  10°C to 66°C  Aprice Temperature  Excellent  Odour  Mild  Open/Working Time 3  Oone, Dry to touch  10°C to 38°C  Excellent  Odour  Application  Open/Working Time 3  Oone, Dry to touch  None, Dry to touch  10°C to 36°C  Elongation  Application  Open/Working Time 3  Oone, Dry to touch  None, Dry to touch  10°C to 36°C  Application  Oone, Dry to touch  None, Dry to touch  None, Dry to touch  10°C to 66°C  Application  Oone, Dry to touch  None, Dry to touch  10°C to 66°C  Application  Oone, Dry to touch  None, Dry to touch  10°C to 66°C  Application  Oone, Dry to touch  None, Dry to touch  None, Dry to touch  None, Dry to  touch  None, Dry touch  None, Dry touch  touch  None, Dry to		Permeability 4	<0.4g/m2/24nrs	
ASTM 1869 – CC Method None, Dry to touch  ASTM 2170 – RH Test None, Dry to touch  Elongation >100%  Service Temperature -40°C to 66°C  Application Temperature 10°C to 38°C  Ease of Trowelling Excellent Odour Mild  Application Open/Working Time 3 60 minutes		Concrete moisture vapour limits for subfloor		
ASTM 1869 - CC Method touch  ASTM 2170 - RH Test None, Dry to touch  Elongation >100%  Service Temperature -40°C to 66°C  Application Temperature 10°C to 38°C  Ease of Trowelling Excellent  Odour Mild  Application  Open/Working Time 3 60 minutes	•	moisture vapour protection:		
ASIM 2170 - RH Test touch  Elongation >100%  Service Temperature -40°C to 66°C  Application Temperature 10°C to 38°C  Ease of Trowelling Excellent  Odour Mild  Application  Open/Working Time 3 60 minutes	Properties	ASTM 1869 - CC Method		
Service Temperature -40°C to 66°C  Application Temperature 10°C to 38°C  Ease of Trowelling Excellent  Odour Mild  Application Open/Working Time 3 60 minutes		ASTM 2170 - RH Test		
Application Temperature 10°C to 38°C  Ease of Trowelling Excellent  Odour Mild  Application Open/Working Time 3 60 minutes		Elongation	>100%	
Ease of Trowelling Excellent Odour Mild  Application Open/Working Time 3 60 minutes		Service Temperature	-40°C to 66°C	
Application Odour Mild Open/Working Time <sup>3</sup> 60 minutes		Application Temperature	10°C to 38°C	
Application Open/Working Time <sup>3</sup> 60 minutes	Application Properties	Ease of Trowelling	Excellent	
		Odour	Mild	
Duran autilia		Open/Working Time <sup>3</sup>	60 minutes	
Properties  Colour  Beige with black specs		Colour	•	
Density 1.71kg/L		Density		
Percentage of Water <sup>5</sup> 0%				
1-Part AXIOS™		<u>-</u>	1-Part AXIOS™	
Chemistry Type Tri-Linking™		Chemistry Type	Tri-Linking™	
Chemical	Chamies		Polymer	
Chemical Properties Adhesive Type Moisture Cure		Adhesive Type	Moisture Cure	
VOC Compliant (calculated Yes (0 g/L)	Properties	VOC Compliant (calculated	Yes (0 a/L)	
per SCAQMD Rule 1168)				
Flash Point >93°C		Flash Point	>93°C	

<sup>2</sup> Humidity affects cure to a greater degree than temperature; the higher the humidity, the faster the cure. Under normal conditions, light foot traffic is acceptable in 6-8 hours; normal traffic after 12-16 hours.

#### SUSTAINABILITY

This Zero VOC formulation (as calculated per SCAQMD Rule 1168) may contribute toward Green Star.

#### **APPLICATION INSTRUCTIONS**

## **DIRECTIONS FOR USE**

- Read and understand this Technical Data Sheet and associated Safety Data Sheet. Latest version can be downloaded from <a href="https://www.bostik.com.au">www.bostik.com.au</a>
- Follow industry standard and flooring manufacturer's recommendation for acclimatisation, design, layout and application of wood flooring material.
- If using the product for moisture and sound control, apply as directed. Use the appropriate notched trowel.
- Upon opening the container, a translucent milky liquid may be present on the surface. This is from normal settling during shipment. Using a gauging trowel, mix the product until a homogenous consistency is achieved.
- Use protective clothing (gloves and eye protection) when working with the product.

# SUBSTRATE & SURFACE PREPARATION

- Ensure the substrate has been correctly installed according to relevant standards and manufacturer recommendations.
- Ensure the substrate is clean and free from oil, grease, sealers, curing compounds, paints, polymer coatings, dust or other foreign (bond breaking) matter. All weak or friable material must be removed
- Excess bitumen, adhesive or laitance should be removed by light scabbling or mechanical captive

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<sup>3</sup> Refer to open time chart

<sup>4</sup> In accordance to ASTM E-96 Standard Test Method for Water Vapour Transmission of

materials.

5 In accordance to ASTM E203-01 Standard Test Method for water using Volumetric Karl Fischer Titration Method. Results rounded to the nearest tenth. Test method has error range of +/- 0.2%

<sup>1</sup> Residential or light commercial only

# BOSTIK ULTRASET® 3 in 1

- shot blasting or grinding, followed by vacuuming to remove debris and dust.
- The subfloor should be flat to 3mm over 3m. That
  is no gap more than 3.00mm beneath the straight
  edge when placed on the slab. If exceeding this,
  level the area with Bostik UL 200 in accordance
  with the Technical Data Sheet.
- All surfaces must be structurally sound before application. Concrete slabs should be built in accordance with AS 2870 (Residential Footings and Slabs)
- Contact Bostik before commencing application if there is any doubt about required or suitable preparation.
- Important Note: Concrete substrate should NOT be smooth and reflective; it must have a slightly textured/porous surface. It is advisable to test for adequate substrate absorption and texture in several areas throughout the jobsite by sprinkling droplets of water onto the slab. Within 1 minute, the droplets of water should show signs of penetrating the substrate. This is evidenced by a water stain on the concrete without a "domed" droplet. If no signs of water penetration are shown within 1 minute and "domed" droplets remain, the substrate will need to be mechanically textured.

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# BOSTIK ULTRASET® 3 in 1

#### **APPLICATION**

- Apply full trowel method. Refer to trowel selection chart for guidance.
- 80 95% contact coverage when used as an adhesive only; 100% contact coverage when used as adhesive, moisture and sound control.
- Evenly spread the adhesive and begin to install the flooring immediately with enough pressure to ensure full adhesive contact.
- Periodically lift boards immediately after installation to ensure proper slab coverage and transfer to the back of the flooring is achieved.
- For solid strip flooring, the preferred method to maintain pressure is to weight the floor. As per ATFA guidelines, the floor can also be temporary or permanently nailed.
- If a thin skin forms on the adhesive prior to installation, re-trowel 90° to the ridges until no sign of the original trowel mark remains. Adhesives that has cured too much prior to installation of the flooring must be removed and re-apply fresh adhesive.

#### **CLEAN UP**

- It is recommended to use clean non-abrasive towel as you work prior to cure.
- While Bostik UltraSet® 3 in 1 bonds tenaciously to concrete and flooring, it is designed not to bond with most finishes on pre-finished flooring making it relatively easy to remove even after cure. May be removed using a plastic scraper and dry nonabrasive towel. Be careful not to damage the finish.
- Tools must be cleaned immediately after use.

## STORAGE & SHELF LIFE

- 12 months when stored off the ground in a cool, dry weatherproof environment.
- Re-Seal Partially Used Container: Clean all adhesive residues off the lip of the pail and the groove around the perimeter of the lid. Plastic (e.g. PE bag) may be placed into the pail to cover wet adhesive, especially in high humidity environments, but do not allow the plastic to extend outside of the pail and interfere with the seal of the pail. Use rubber mallet to fully seal the lid. Do not turn the pail over.
- Re-Open Partially Used Container: Remove the lid.
   Peel away cured material and discard. Any uncured material may be used.

## **IMPORTANT NOTES**

 Periodically check coverage of adhesive during installation; 100% substrate coverage and adhesive transfer is required to protect against damages from subfloor moisture.

- Due to limitations with solid and bamboo wood flooring (e.g. lack of dimensional stability), "below-grade" installations are limited to engineered hardwood flooring.
- On or below grade substrates must have appropriate vapour barrier properly installed below slab.
- Do not install solid wood flooring over VCT / vinyl.
- Bamboo installations should follow solid hardwood flooring installation recommendations.
- Recommended slab temperature is 10 35°C.
- Requires atmospheric moisture to cure properly.
   It should not be used in totally confined or air free spaces.
- Do not use on wet, dusty, contaminated, glassy smooth or friable substrates.
- Do not use over substrates treated with sealers or curing compounds.
- Do not use to areas subjected to negative hydrostatic head.
- Completely remove all adhesive residue and other surface contaminants from the slab by diamond grinding, shot blasting or scarifying.
- Do not use over perimeter bonded flooring material.
- Timber flooring may need to be acclimatised to the relevant environment to prevent excessive expansion / shrinkage causing failure of the floor system. Additional expansion allowance may also need to be provided. Refer to timber manufacturer or ATFA installation procedures.
- If uncertain about the quality or moisture condition of the slab, verification of its moisture content using moisture meter is needed. Use of **Bostik Ultra Seal** may be required for excessive moisture.
- This product does not eliminate all possible moisture related or installation related issues (e.g. puddles, water leaks, wet mopping, hydrostatic head, etc.)
- Bostik UltraSet® 3 in 1 is designed to prevent excessive variance of moisture between top, middle and bottom of flooring that originates from the substrate.
- The product should not be exposed to water and alcohol based cleaners before it has completely cured
- Bostik UltraSet® 3 in 1 must be fully cured prior to sanding. Allow a minimum of 24 hours. Note that industry recommendations indicate that it can be beneficial for a floor to be left for a period of 3 to 14 days prior to sanding.
- Variation in temperature and humidity will affect the curing rates.
- For optimum performance, use the appropriate trowel recommended by Bostik.

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# BOSTIK ULTRASET® 3 in 1

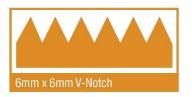
#### TROWEL SELECTION

In order to form a membrane that functions properly for moisture vapour protection and/or sound reduction, the right trowel needs to be selected to achieve both 100% coverage of the substrate and 100% transfer to the back of the flooring. Jobsite conditions, profile of the substrate, depth of back channelling in the flooring, and other factors affect the amount of adhesive that must be applied to achieve proper coverage and transfer. Always pull a board at the beginning of and during the installation process to confirm adequate coverage and transfer.

Trowel size may need to be changed to achieve the required coverage and transfer. See trowel suggestion below.

#### ADHESIVE & MOISTURE MEMBRANE INSTALLATION METHOD

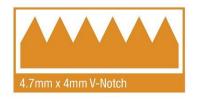
# Suggested trowel (For use as an adhesive, moisture control and sound reduction membrane, refer below)



Trowel size is suggested to maximize coverage of adhesive. Periodically lift a board to insure the following conditions are being met: 100% coverage of concrete substrate and 100% transfer to the back of the flooring product. Uneven subflooring may require the use of either a levelling/patching material, or a larger V-notched trowel for proper coverage of adhesive.

#### ADHESIVE ONLY INSTALLATION METHOD

#### Suggested trowel (For use as an adhesive only, refer above)



Trowel size is suggested to maximize coverage of adhesive. Periodically check coverage of adhesive during installation: >80% coverage is required for all engineered wood flooring, >95% coverage is required for all solid wood flooring or bamboo flooring products.

#### COVERAGE

Coverage will vary depending on substrate conditions and trowel size used. Below are estimated coverage per 26kg (15.3L) pail of **Bostik UltraSet® 3 in 1**.

ADHESIVE ONLY				
Application	Coverage			
Engineered hardwood flooring ≤ 13mm thickness (4.7 x 4mm V-Notch trowel)	18 – 19m²			
S 13mm thickness parquet or cork underlayment (4 x 4mm Square Notch trowel)	20 – 22m²			
Solid, engineered or bamboo flooring > 13mm thickness (6 x 6mm Square or V-Notch trowel)	12 – 13m²			

ADHESIVE, SOUND & MOISTURE CONTROL		
Application	Coverage	
Solid, engineered or bamboo up to 16mm thickness (6 x 6mm Square or V-Notch trowel)	12 – 13m²	
Solid, engineered or bamboo > 16mm thickness (6 x 6mm V-Notch trowel)	12 – 13m²	

## OPEN TIME CHART

Temp	HUMIDITY			
Tellip	40%	60%	80%	
16 °C	2.3 hours	2.0 hours	1.0 hour	
21 °C 2.0 hours 1.0 hours 45 minutes				
27 °C	1.0 hour	45 minutes	30 minutes	
Note: This chart is for reference only, actual jobsite times may vary.				

## BOSTIK UI TRASFT® 3 in 1

## BOSTIK CO-OPERATIVE TEST PROGRAM

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

#### LIMITED WARRANTY

The Limited Warranty for this product is available at https://www.bostik.com/australia/en\_AU/customer-support/warranty-information/ or by calling the Bostik Hotline (1800 267 845).

Bostik manufactured products are warranted to meet the performance requirements set down in their Technical Data Sheet, for a period of 10 years from the date of manufacture. This is provided the products are stored and used within the guidelines set down in the Technical Data Sheet. All workmanship during use and installation must be carried out in accordance with any relevant Australian Standards, and applicable Building Codes. This warranty excludes failure from damage by third parties, defective coverings and substrates, construction failure, and distortion or settling of the substrata. Bostik's sole responsibility and liability under this Guarantee and otherwise with respect to the product is to supply replacement product. Bostik Australia reserves the right to inspect any alleged failure. No responsibility will be accepted unless a representative of Bostik Australia is afforded the opportunity to inspect any alleged failure. All other conditions or warranties whether express or implied by any other representation, statement or correspondence on the part of the Company are hereby excluded.

It is the buyer's obligation to test the suitability of the product for an intended use prior to using it. The Limited Warranty extends only to the original purchaser and is not transferable or assignable. Any claim for a defective product must be filed within 30 days of discovery of a problem, and must be submitted with written proof of purchase.

#### **SAFETY PRECAUTIONS**

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



This datasheet is for the general help of users. It is provided in good faith. The data is current and accurate to the best of our knowledge. Differing materials, substrates, environments, site conditions, and product storage, handling and application may affect results. Users should carry out tests to decide the product's suitability for purpose. This data sheet and the properties of the product may change without notice. Users, suppliers and retailers should check that the data sheets they have are the latest. To the maximum extent permitted by law, Bostik disclaims all warranties in relation to manufacture and use of the product. Bostik is not liable for representations made by users, suppliers or retailers about the product. Bostik is not liable for any loss or damage resulting from incorrect, careless, or negligent use or storage of the product, including use of out of date product. Any liability arising from use of the product is limited to the replacement or purchase price of the product. Bostik does not exclude rights and remedies that cannot be excluded by legislation, for example under the Australian Consumer Law (ACL). Sale of the product by Bostik is subject to the Bostik Australia Proprietary Limited Conditions and Terms of Sale. For more information on Bostik, products, and conditions of use and sale visit www.bostik.com/australia

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