



ULTRASET® 2IN1

ADVANCED TRI-LINKING™ ADHESIVE AND MOISTURE CONTROL MEMBRANE

TECHNICAL SHEET 27/06/2024

SMART ADVANTAGES

- 2 in 1: Adhesive and Moisture control
- Superior bond strength
- Blockade® Anti-microbial protection
- Extremely low moisture vapour permeability
- Suitable over radiant heating
- Anti-fracture performance - bridge cracks up to 3mm
- Isocyanate free formula
- Zero VOC content
- No restriction on board length or width
- Made in Australia

DESCRIPTION

Ultraset® 2 in 1 is a high performance hardwood flooring adhesive and moisture control membrane all in one.

USES

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



PRODUCT CHARACTERISTICS

Colour	Beige
Composition	1-Part AXIOS™ Tri-Linking™ Polymer
Application temperature	10 to 38°C
Density	1.7kg/L
Cure system	Moisture cure
VOC	0 g/L

PRODUCT PERFORMANCE DATA

Elongation	>100%
Walk on time	8-12hrs - light traffic 12-24hrs - Normal foot traffic
Open/Working time	60 mins
Water vapour permeability	<0.4/m²/24hrs

USING ULTRASET® 2IN1

Please read and understand the Safety Data Sheet before using this product. SDS can be acquired by visiting www.bostik.com.au or by scanning the QR code on relevant packaging.

- Follow industry standard and flooring manufacturer's recommendation for acclimation, 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.

SURFACE PREPARATION

- All surfaces must be clean, dry, and free of voids, curing compounds, loose materials, oil, grease or similar that can affect adhesion.
- All surfaces must be structurally sound before application.
- When applying on subfloor structures such as engineered plywood i.e. yellow tongue, it is recommended to lightly sand the surface to ensure proper bond between substrate and timber flooring.
- The subfloor should be flat to 3mm over 3m. That is, no gap more than 3mm beneath the straight edge when placed on the slab. If exceeding this, prime the substrate with **Ultra Prime A510** and level the area with **Ultra Level C500** with (Refer to relevant product Technical Data Sheet for detailed application instructions).
- Where previous adhesives (PVA or bituminous adhesives) or contamination (waxes, coatings, etc.) is suspected or in evidence, thorough removal of all such contamination must be carried out. Concrete slabs should be built in accordance with Residential Footings and Slabs Code AS2870.

APPLICATION

- Refer to trowel selection chart for guidance.
- 80 - 95% contact coverage when used as an adhesive only; 100% contact coverage when used as adhesive and moisture 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 have cured too much prior to installation of the flooring must be removed and re-apply fresh adhesive.
- When nailing boards over plywood, ensure nail does not pierce membrane between ply and concrete, or else moisture warranty will be void.

COVERAGE

Coverage will vary depending on substrate conditions and trowel size used. Below are estimated coverage per 16kg pail of Ultraset® 2IN1.

ADHESIVE ONLY	
Application	Coverage
3 x 4mm V-Notch trowel	12 – 14m ²

ADHESIVE & MOISTURE CONTROL	
Application	Application
6 x 6mm V-Notch trowel	8 – 12m ²

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BOSTIK HOTLINE

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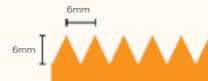


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TROWEL SELECTION

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 lift 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 suggestions below.

ADHESIVE TROWEL SELECTION FOR OPTIMUM COVERAGE			
TROWEL		APPLICATION	RECOMMENDED
3mm x 4mm V Notch		As Adhesive Only Application	Ultraset HP Ultraset SF Ultraset 2 IN 1
6mm x 6mm V Notch		As Adhesive and Moisture Control Application	Ultraset 3 IN 1 Ultraset 2 IN 1

BOSTIK PRE-TESTED ADHESION TO SUBSTRATE (P.A.T.S.)

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.

CLEANING

- It is recommended to use clean non-abrasive towel as you work prior to cure.
- While **Ultraset® 2IN1** 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 non-abrasive towel. Be careful not to damage the finish.
- Tools must be cleaned immediately after use using **Bostik Handy Wipes**

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 **Ultra Seal** may be required

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- for concrete that is wet visually without free water.
- NOTE: It is the user's responsibility to determine the condition and suitability of all surfaces before application
- This product does not eliminate all possible moisture related or installation related issues (e.g. puddles, water leaks, wet mopping, hydrostatic head, etc.)
- Ultraset® 2IN1** 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.
- Ultraset® 2IN1** 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.

LIMITED WARRANTY

The Limited Warranty for this product is available at http://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 substrate. 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.

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STORAGE & SHELF LIFE

12 months when stored off the ground in a cool, dry weatherproof environment and out of direct sunlight.

- 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.

HEALTH & SAFETY

SEE THE SAFETY DATA SHEET FOR ADDITIONAL INFORMATION.

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

PRODUCT CODES

ULTRASET 2IN1 16kg	30628311
Axios 3mm x 4 mm V Notch Trowel	30840171
Axios 6mm V Notch Trowel	30609631

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