



# ULTRASET<sup>®</sup> SF

## SOLVENT FREE POLYURETHANE TIMBER FLOORING ADHESIVE

27 May 2021

### YOUR SMART ADVANTAGES

- Recommended adhesive by major timber manufacturers
- Meets requirements for EN 14293:2006 "Adhesives for bonding parquet to subfloor"
- Solvent free formulation
- Zero VOC
- Non flammable
- No mixing; ready to use
- Easy to spread
- Will not re-emulsify when in contact with water
- Tested to ASTM C794 for peel adhesion to various species of Australian hardwood
- Remains flexible after full cure
- Excellent bond strength
- Excellent acoustic properties
- Suitable over radiant heating
- Australian made

### USES

- Adhering parquet, solid strip softwood and hardwood flooring, engineered flooring and bamboo flooring to concrete subfloors.
- Adhering recommended acoustic underlays as an intermediate layer between subfloor and flooring system.

### PRODUCT CHARACTERISTICS

Colour	Brown
Viscosity	Smooth paste; holds peaks
Composition	Polyurethane
Application temperature	5 to 30°C
<b>Product codes</b>	
16kg Pail (12.3L)	30604590
600mL Sausage	30840110
300mL Cartridge	30840208
Flat V Notch Trowel	30840171
Specific Gravity	1.31 Approx.
Cure Rate	1.5-2.5mm / 24hrs

### PRODUCT CHARACTERISTICS (continued)

Full Cure (1mm film)	Approx. 24hrs Depending on temperature and relative humidity. Curing time extended in low humidity
Elongation	600%
Walk on time	8-10hrs - light traffic
Tack Free time	Approx. 4hrs @ 23°C 50% RH
Shore A Hardness	Approx. 52
Tensile Strength in Shear (2mm) Timber to Timber - BS EN 14293	1.4N/mm <sup>2</sup>

### DIRECTIONS FOR USE

Read and understand the Safety Data Sheet before using this product. Safety Data Sheets can be accessed at [www.bostik.com.au](http://www.bostik.com.au) or by scanning the QR code on relevant packaging.

### SURFACE PREPARATION

- All surfaces must be clean, dry and free of voids, curing compounds, loose materials, oil, grease or similar that can affect adhesion.
- 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, level the area with **Bostik UL-200** (Refer to current **Bostik UL-200** Technical Data Sheet for detailed application instructions).
- All surfaces must be structurally sound before application.
- 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.

# BOSTIK ULTRASET® SF

## SURFACE PREPARATION (cont.)

### Bostik Ultraseal Vapour Barrier

- Designed to prevent moisture migration through the slab to levels that will not cause swelling or cupping of the timber flooring.
- As a preventative measure, it is recommended that all ground floor slabs and all new green slabs (less than four months old) be coated with **Ultraseal Vapour Barrier** as moisture levels within the slab can vary over time (refer to current **Ultraseal Vapour Barrier** TDS for detailed application instructions.)
- Always carry out moisture tests to determine suitability.
- For ground floor slabs only one coat of **Ultraseal Vapour Barrier** is normally required. However, a second coat will be needed if the concrete is very porous, or the coating becomes patchy, uneven or contains pinholes.
- Ensure that a wet film thickness of > 300µm is achieved.
- **Ultraseal Vapour Barrier** can be applied to a new or green concrete when the moisture content of the slab is less than 5.5% (moisture meter) and the surface stable and dry to touch. The time to achieve that is normally at least 28 days.
- Concrete subfloors are considered to be dry enough for Timber Flooring when the Water Vapour Transmission Rate (WVTR) does not exceed 15g/m<sup>2</sup>/24 hours (calcium chloride method).

### Bostik UL-200 / Bostik PrimeGrip Non-Porous

If the concrete subfloor is uneven and requires levelling prior to the application of timber flooring, Bostik recommends the use of **Bostik UL-200** with **Bostik PrimeGrip Non-Porous** to be applied after **Bostik Ultraseal Vapour Barrier**. Refer to current TDS for detailed application instructions.

## APPLICATION

### Full Trowel Method

Full trowel bed installations are the preferred method for direct stick over standard concrete slabs or slabs incorporating radiant heating and for all acoustic underlayment options. Full trowel bed is also necessary where specified by the flooring product manufacturer or industry recommendations in ATFA publications.

1. Apply a single application of Ultraset SF using 3-4mm V-notch or similar square notch trowel (refer to trowel selector chart for optimum trowel size. Depending on selected flooring type and dimensions and condition of slab, a larger notch size trowel may be recommended).
2. Evenly spread the Ultraset SF with the trowel and set flooring material with enough pressure to ensure full contact between the Ultraset SF and the timber until full cure of the Ultraset SF is achieved (minimum 24 hours but under low humidity and temperatures it may take longer).
3. For solid strip flooring, the preferred method to maintain pressure is to weight the floor, but as per ATFA guidelines\*, the floor can be temporarily nailed or permanently nailed to the subfloor.

### Bead Method (not recommended for direct stick applications)

In relying on mechanical fixing and use of beads of adhesive in applications to plywood, particleboard, joists or battens then this should be in accordance with timber floor manufacturer recommendations or industry recommendations in ATFA publications\*.

## COVERAGE

Although coverage will depend on substrate conditions and trowel selection (refer to trowel selector chart for optimum trowel size) a coverage of approximately 1.1m<sup>2</sup> to 1.3m<sup>2</sup> per litre is required.

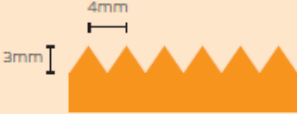
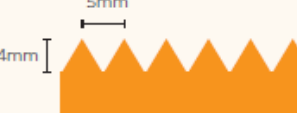


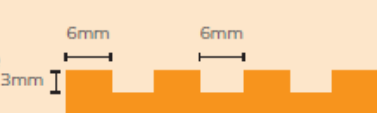
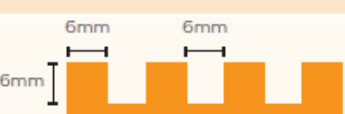

**Full coverage and floor pressure must be maintained to achieve a minimum of 80% bond area contact of Ultraset SF between the subfloor and flooring.**

## IMPORTANT NOTES

- **Bostik Ultraset SF** should not be applied over any acrylic primer or sealer.
- Do not apply **Ultraset SF** on a dense burnished concrete surface without prior abrading or sanding back the surface to obtain mechanical key. Refer to a Bostik Technical Representative.
- If **Bostik Ultraset SF** is to be used in conjunction with **Bostik UL-200** then ensure that none of the **Bostik PrimeGrip** is left exposed. **Bostik Ultraset SF** will not adhere to the **Bostik PrimeGrip**. Whenever the primer is applied, the **Bostik UL-200** must be applied over or the excess primer removed prior to the installation of **Bostik Ultraset SF**.
- Requires atmospheric moisture to cure properly. In low humidity conditions below 40% refer to a Bostik Technical Representative. It should not be used in totally confined or air free spaces.
- Timber flooring may need to be acclimatized 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 manufacturers' or ATFA installation procedures where applicable.
- **Bostik Ultraset SF** is not a waterproofing membrane and should not be used for waterproofing a subfloor.
- **Bostik Ultraset SF** should not be installed on wet, contaminated or friable surfaces.
- **Bostik Ultraset SF** should not be exposed to water and alcohol based cleaners before it has completely cured.
- **Bostik Ultraset SF** must be fully cured prior to sanding. Allow a minimum of 24 hours. Variations in temperature and humidity affect curing rates. Note also 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.
- **Bostik Ultraset SF** is suitable for installation with recommended acoustic underlays.
- Bamboo flooring can be very sensitive to the effects of moisture vapour, therefore two coats of **Ultraseal Vapour Barrier** are recommended in all applications.

# BOSTIK ULTRASET® SF

## TROWEL SELECTION CHART

ADHESIVE TROWEL SELECTION FOR OPTIMUM COVERAGE		
TROWEL	APPLICATION	COVERAGE
3mm x 4mm V Notch 	Solid and engineered hardwood and bamboo flooring <13mm thick and parquet <19mm	1.2 – 1.4m <sup>2</sup> /L
4mm x 5mm V Notch 	Engineered timber >13mm thick, and engineered bamboo flooring <13mm thick	1.0 – 1.2m <sup>2</sup> /L
5mm x 8mm x 6mm Flat V Notch 	Engineered hardwood and engineered bamboo flooring <13mm thick and acoustic underlayment	Up to 1.2m <sup>2</sup> /L
3mm x 3mm x 3mm Square Notch 	Finger block parquet	Up to 2.0m <sup>2</sup> /L
6mm x 6mm x 3mm Square V Notch 	Engineered hardwood flooring >13mm thick, Solid wood or bamboo flooring <13mm, & parquet <19mm	Up to 1.0m <sup>2</sup> /L
6mm x 6mm x 6mm Square Notch 	Solid wood or solid bamboo flooring <13mm thick, or plywood	Up to 0.9m <sup>2</sup> /L
25mm x 6mm x 5mm Flat Notch 	Bostik Ultraset DX application only	Up to 2.2m <sup>2</sup> /L

Trowel size is suggested to maximise coverage of adhesive during installation: Periodically check > 80% bond area contact is achieved between flooring and subfloor. Uneven surfaces may require the use of either a self levelling / patching material, or a larger V or Flat Notch trowel for proper coverage of adhesive.

### CLEAN UP

Cleaning solvents such as mineral spirits, Shellite, or paint thinners or **Bostik Handy Wipes** can be used to remove excess adhesive. This should be done immediately for optimum results. Care should be taken to prevent any reaction or damage to prefinished timber coatings. \*As per ATFA publication 'Timber Flooring' 2009, 'Engineered Flooring Industry Standard' 2012; 'Bamboo Flooring Industry Standard' 2012.

surface preparation method to achieve optimum adhesion. Consult a Bostik representative for further information.

### STORAGE AND SHELF LIFE

Store in original sealed container, under cover and in dry conditions. **Bostik Ultraset SF** has a shelf life of 12 months in the original unopened containers, if stored between 5°C and 30°C.

### 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

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## SAFETY PRECAUTIONS

SEE THE SAFETY DATA SHEET FOR ADDITIONAL INFORMATION.

EMERGENCY INFORMATION: 1800 033 111 (ALL HOURS).

SDS can be downloaded from [www.bostik.com.au](http://www.bostik.com.au)



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