



# ULTRASET® SF PRO

## SOLVENT FREE POLYURETHANE TIMBER FLOORING ADHESIVE

TECHNICAL SHEET 25/09/2023

### SMART ADVANTAGES

- Excellent bond strength
- Excellent acoustic properties
- Suitable over radiant heating
- Remains flexible after full cure
- Solvent free formulation. Zero VOC.
- Non flammable
- No mixing. Ready to use
- Recommended adhesive by major timber manufacturers
- Tested to ASTM C794 for peel adhesion to various species of Australian hardwood
- Meets requirements for EN 14293:2006 “Adhesives for bonding parquet to subfloor”
- Made in Australia

### DESCRIPTION

**Ultraset® SF PRO** is a one-part solvent free, elastomeric polyurethane adhesive formulated to adhere most types of wood, parquet, solid strip, engineered, bamboo and sheet timber flooring systems to flat concrete and timber subfloors, or over existing floors.

### USES

- Adhering parquet, solid strip softwood and hardwood flooring, engineered flooring and bamboo flooring to concrete and timber subfloors, over existing floors or Bluescope Truecore® and Zinalume®.
- Adhering recommended acoustic underlays as an intermediate layer between subfloor and flooring system.



### PRODUCT CHARACTERISTICS

<b>Colour</b>	White
<b>Appearance</b>	Smooth paste; Holds peaks
<b>Composition</b>	Polyurethane
<b>Application temperature</b>	5 to 30°C

### PRODUCT PERFORMANCE DATA

<b>Cure rate</b>	1.5-2.5 mm / 24hrs
<b>Full cure</b>	Approx. 24hrs Depending on temperature and relative humidity. Curing time extended in low humidity
<b>Elongation</b>	600%
<b>Walk on time</b>	8-10hrs – light traffic
<b>Tack Free time</b>	Approx. 4hrs @ 23°C 50% RH
<b>Shore A Hardness</b>	Approx. 52
<b>Tensile Strength in Shear (2mm) Timber to Timber – BS EN 14293</b>	1.4N/mm <sup>2</sup>

## USING ULTRASET® SF PRO

Please read and understand the Safety Data Sheet before using this product. SDS can be acquired by visiting [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.
- All surfaces must be structurally sound before application.
- 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.

### 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 Australia**  
51-71 High St, Thomastown  
VIC 3041  
P: 1800 267 845  
[www.bostik.com.au](http://www.bostik.com.au)

### Bostik Ultra Level C500/ PrimeGrip Non-Porous

If the concrete subfloor is uneven and requires levelling prior to the application of timber flooring, Bostik recommends the use of **Ultra Level C500** with **PrimeGrip Non-Porous** to be applied after **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 PRO** 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 PRO** and the timber until full cure of the **Ultraset® SF PRO** 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\*.

\*As per ATFA publication 'Timber Flooring' 2009, 'Engineered Flooring Industry Standard' 2012; 'Bamboo Flooring Industry Standard' 2012.

### 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.

**BOSTIK HOTLINE**

**1800 BOSTIK (267 845)**



## ADHESIVE TROWEL SELECTION FOR OPTIMUM COVERAGE

TROWEL	APPLICATION	RECOMMENDED
3mm x 4mm V Notch	As Adhesive	Ultraset HP Ultraset SF Ultraset 3 IN 1 Ultraset 2 IN 1

### CLEANING

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.

### IMPORTANT NOTES

- **Ultraset® SF PRO** should not be applied over any acrylic primer or sealer.
- Do not apply **Ultraset® SF PRO** 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 **Ultraset® SF PRO** is to be used in conjunction with **Ultra Level C500** then ensure that none of the **Bostik PrimeGrip** is left exposed. **Ultraset® SF PRO** will not adhere to the **PrimeGrip**. Whenever the primer is applied, the **Ultra Level C500** must be applied over or the excess primer removed prior to the installation of **Ultraset® SF PRO**.
- 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.
- **Ultraset® SF PRO** is not a waterproofing membrane and should not be used for waterproofing a subfloor.
- **Ultraset® SF PRO** should not be installed on wet, contaminated or friable surfaces.
- **Ultraset® SF PRO** should not be exposed to water and alcohol-based cleaners before it has completely cured.

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- **Ultraset® SF PRO** 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.
- **Ultraset® SF PRO** 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.

### STORAGE & SHELF LIFE

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

### 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

600mL Sausage	30620431
Flat V Notch Trowel	30840171

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