ULTRASET SF

SOLVENT FREE POLYURETHANE ADHESIVE

KEY FEATURES

- Solvent free formulation
- Zero VOC
- Non flammable
- No mixing, ready to use
- One component
- Easy to spread
- Will not re-emulsify when in contact with moisture
- Tested to ASTM C794 for peel adhesion to various species of Australian hardwood
- Remains flexible
- Excellent bond strength
- Recommended adhesive by major timber manufacturers
- Excellent acoustic properties
- Australian made

DESCRIPTION

One part solvent free polyurethane elastomeric 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.

CLASSIFICATION / STANDARDS

Meets requirements EN 14293:2006
"Adhesives for bonding parquet subfloor"

RECOMMENDED USES

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

PREPARATION

All surfaces must be clean, dry and free of voids, curing compounds, loose materials, oil, grease and or similar that can affect adhesion. All surfaces must be structurally sound before application.

PERFORMANCE PROPERTIES

Appearance	Smooth Paste-hold peaks
Colour	Brown
Specific Gravity	Approx. 1.31
Flammability	Non Flammable (contains no solvent)
Walk on Time	8 to 10 hours for light traffic
Tack Free Time	Approx. 4 hours @ 23°C, 50% RH
Cure System	Moisture Cure Polyurethane
Cure Rate	1.5 to 2.5mm / 24 hrs
Full Cure (1mm film)	Approx. 24 hours. Depending on temperature & relative humidity. Curing time extended in low humidity.
Hardness Shore A	Approx. 52
Tensile Strength in Shear (2mm) Timber to Timber - BS EN 14293	1.4N/mm^2
Elongation	600%
VOC	Zero g/L

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 slab should be built in accordance with Residential Footings and Slabs Code AS2870.

The subfloor should be flat to 3mm over 3m. There is no gap more than 3mm beneath the straight edge when placed on the slab. If exceeding, level the area with Bostik Roxol Trafic 3 self levelling compound (refer to Bostik Roxol Trafic 3 Technical Data Sheet for detailed application instructions).

Ultraseal Vapour Barrier

- Designed to prevent moisture migration through the slab to the 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 or greeen slabs (less than four months old) be coated with Ultraseal Vapour Barrier as moisture levels within the slab can vary over time (Refer to Ultraseal Vapour Barrier Technical Data Sheet for detailed application instruction).
- Always carry out moisture tests to determine suitability.
- For ground floor slabs only one coat of Ultraseal Vapour Barriar 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 > 300 µm 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 this 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^2/24 hours (calcium chloride method).

Bostik UL-200 / Ultra NP Primer
If the concrete subfloor is uneven and requires levelling prior to the application of timber flooring, Bostik recommended the use of Bostik UL-200 / Ultra NP Primer to be applied after Bostik Ultraseal Vapour Barrier (Refer to Technical Data Sheet for detailed application instruction).

MIXING

No mixing is required. Simply use directly from pail or sausage.

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.

- Apply a single application of Ultraset SF using a 3 to 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).
- 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).
- 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)
If relying on mechanical fixing and use of beads of adhesive in applications to plywood, plasterboard, joists or batten then this should be in accordance with timber flooring manufacturer recommendations or industry recommendations in ATFA publications*.

COVERAGE

Although coverage will depend on substrate conditions and "V" notch or square notch trowel size (refer to trowel selector chart for optimum trowel size) a coverage of approximately 1.1 to1.3 square meters 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

- 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 to abrading or sanding back the surface to obtain mechanical key. Refer to a Bostik Technical Representative.
- If Ultraset SF is to be used in conjuction with Bostik UL-200 then ensure that none of the Bostik UL-Primer is left exposed. Ultraset SF will not adhere to the Bostik UL-Primer, whenever the primer is applied the Bostik UL-200 must be applied over or the excess primer removed prior to the installation of Ultraset SF.
- Requires atmospheric moisture to cure properly. In low humidity conditions below 40%, refer to Bostik Technical Representative. It should not be used in totally confined to air free spaces.
- 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 manufacturers' or ATFA installation procedures as applicable).
- Ultraset SF is not a waterproofing membrane. It should not be used for waterproofing a subfloor.
- Ultraset SF should not be installed on wet, contaminated or friable surfaces.
- Utlraset SF should not be exposed to water and alcohol based cleaners before it has completely cured.
- Ultraset SF must be fully cured prior to sanding. Allow a minumum 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 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.

PACKAGING

16 kg pail
600ml sausage, 20 sausages per carton

CLEAN UP

Cleaning solvents such as mineral spirits, Shellite, or paint thinners or Bostik Handi-Clean towels can be used to remove excess. This should be done immediately for

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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 and `Bamboo Flooring Industry Standard' 2012.

STORAGE AND SHELF LIFE

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

HEALTH AND SAFETY

See the Material Safety Data Sheet for additonal information.

The information and recommendations relating to the application and end-use of the product are given in good faith and based on tests which we believe to be reliable. Differing materials, substrates, environments, site conditions, and product storage, handling and application may affect results. However, no warranty in respect of merchantability or fitness for a particular purpose, nor any liability arising out of any legal relationship, whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advise offered. No guarantee of their accuracy can be made because of the great range of field conditions and variation encountered in raw materials, manufacturing equipment and methods. Thus, the products are sold with limited warranty only, and on condition that purchasers will make their own tests to determine the suitability of the product for their particular purposes. Under no circumstances will Bostik be liable to anyone except for replacement of the products or refund of the purchase price.

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