



FLOORBOND XMS SUBFLOOR

Description

Floorbond XMS Subfloor adhesive, based on hybrid technology, is a high strength, high performance, flexible general purpose construction adhesive primarily designed for use in installing particleboard (red, yellow and green tongue) flooring over timber joists where nail ride/squeak is to be eliminated. Floorbond XMS Subfloor adhesive is also suitable for use in general building and construction applications where a strong yet flexible bond is required over a variety of substrates. Floorbond XMS Subfloor adhesive is ready to use with no mixing required. The adhesive creates a strong, permanently flexible bond. It is non toxic and easy to clean up. Floorbond XMS Subfloor adhesive cures by means of a chemical reaction within the adhesive and atmospheric moisture. Once fully cured (approx. 24 hrs. at 23°C and 50% RH) an elastic and non-shrinkable adhesive layer is formed, which is resistant to moisture and heat. The adhesive has excellent adhesion to most common substrates used in the construction industry. The adhesive contains no water or solvents, minimizing the risk of deforming timber flooring.

Benefits

- Easy to apply in all conditions/temperatures
- No gassing or foaming
- Elastomeric, permanently flexible
- Contains no Water, Solvents or Isocyanates

- Resistant to temperature extremes: - 40°C to 90°C
- Rapid cure and build-up of bond strength
- One part ready to use, no mixing required
- Easy to clean up – no black hands that occurs when using Polyurethane adhesives

Uses

- Bonding particleboard subfloors (red, green, yellow) tongue to timber joists where traditional construction adhesives can become brittle and crack over time resulting in clicking/nail squeak
- Bonding metal joist systems to particleboard subfloors (refer HB Fuller technical department for approved metal joist systems)
- Timber and metal wall frame and truss bonding
- Bonding many types of building construction materials on site
- Suitable for porous and non porous substrates
- Suitable for floors with underfloor heating – see installation notes
- In areas where movement needs to be absorbed

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Compatible Substrates

Concrete	Particleboard
Timber	Cementitious Screed*
MDF	Marble
Plywood	Porcelain Tiles
Steel Joists	Galvanised Steel
Red Tongue	Yellow Tongue
Stainless Steel	Compressed Cement Sheeting
Mild Steel	Green Tongue
Bluescope Truecore®	James Hardie Scyon™

*Contact HB Fuller Customer Service department for information on approved screeds.

Coverage

A 300ml cartridge will give approximately 15 linear meters of a 5mm bead.

Performance Summary

Material Base	Hybrid
Curing system	Moisture/Chemical Cure
Colour/Consistency	Tan paste
Specific Gravity	1.66
Solids content	100 %
Shore A Hardness	ca. 50
Modulus – 50%	ca. 1.3MPa
Modulus – 100%	ca. 1.8MPa
Shear Strength (DIN281b) wood/wood	>1 MPa
Coverage	~15lm per 300ml cartridge
Skin Time	60-80mins @ 23C
Repositioning Time	~4 hours @ 23C
Cure Rate	3-4mm/day @ 23C
Set to load bearing	Min 24 hours*
Storage Life	12 months unopened
Service Temperature	-40°C to 90°C

*If Floorbond XMS Subfloor adhesive is used in conjunction with mechanical fixings IE in the installation of particleboard subfloors over joists, Floorbond XMS Subfloor adhesive can accept light foot traffic immediately after application as long as mechanical fixings are appropriately installed.

Surface Preparation

All surfaces must be clean, dry, sound and free of dust, oil, old adhesive or other contamination. Lightly contaminated surfaces should be wiped with Isopropyl Alcohol (IPA) using the 2-rag wipe method. Apply IPA to a clean lint-free cloth and wipe onto the surface to be cleaned to solubilise and remove the majority of the contaminant. A clean dry cloth should then be applied to remove remaining

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contamination and dry the surface. Ensure wet cleaner is not allowed to dry on surface. For more heavily contaminated surfaces or where the IPA does not remove the contaminant, a generic wax and grease remover should be applied using the same 2-rag wipe method. Once this has been completed the surface should be given a final clean with IPA using the 2-rag wipe method to ensure the surface is adequately prepared. Adhesion to metals and some surface finishes can be further improved by light abrasion prior to cleaning with IPA using the 2 rag-wipe method.

Product Application

Cut tip off cartridge. Angle cut nozzle to desired size. Screw nozzle onto cartridge. Apply product to one surface to be bonded. Before product skins, mate with other surface. When bonding particleboard subfloor to joists, apply a 5mm bead of adhesive along the entire length of the joist to be bonded, then fix particleboard subfloor on to joist, ensuring full contact with the joist. Fasten using mechanical fastenings in conjunction with the use of Floorbond XMS Subfloor. When bonding a sheet or panel to a large, flat surface, apply sufficient adhesive to trowel out for full coverage bonding. Press into position and brace until set. Any flooring application to full surfaces (e.g. concrete or plywood) must be fully bonded, that is a full layer of adhesive over entire area (spot gluing or bead application is not recommended).

Temporary or mechanical fixing may be required depending upon substrates. Bond will develop dependent upon thickness of adhesive, and ambient conditions. Higher humidity and warmer temperatures will hasten bond development. Minimum film thickness for bonding applications is approx 1mm.

Cure Time

Skin time 60-80 minutes, full bond set in 24-48 hours depending upon volume of adhesive used and climatic conditions. In warmer conditions and in conditions with high humidity (>30°C & >50%RH), the skin and repositioning time of Floorbond XMS Subfloor adhesive will be significantly reduced. Care should be taken in these conditions to ensure Floorbond XMS Subfloor adhesive does not skin prior to bonding, otherwise poor adhesion will result. It is recommended in high temperature and humidity conditions that the area that Floorbond XMS Subfloor adhesive is applied to is reduced to ensure adequate adhesive properties.

Clean Up

Uncured Floorbond XMS Subfloor adhesive may be removed from tools and substrates with a mild solvent e.g. methylated spirits, mineral turpentine, acetone. Cured adhesive must be removed mechanically, e.g. trimmed with a sharp knife.

Shelf Life

Floorbond XMS Subfloor adhesive will remain suitable for use for 12 months from date of manufacture if stored in original container in cool, dry place in temperatures < 30°C. Storage in high humidity or temperature will dramatically reduce the shelf life of this product.

Limitations

- Do not install to substrates that are not protected from rising damp
- Do not apply the adhesive at temperatures below 5°C or above 35°C

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- Do not apply the adhesive when the relative humidity is above 75%
- Do not install if the walls and ceilings of the area are not dry (e.g. after plastering or painting etc.)

Safety Information

This product is not considered to be hazardous according to criteria of Worksafe Australia. Avoid contact with skin and eyes. Follow normal hygiene standards and wear gloves. Store in a dry place below 30°C. KEEP OUT OF REACH OF CHILDREN A Material Safety Data Sheet is available from the H.B. Fuller representative your state, HB Fuller Australia customer service, or downloadable from the HB Fuller web site, www.hbfuller.com.au

Disclaimer

This technical data sheet summarises at the date of issue to the best technical knowledge of HB Fuller Australia. Since HB Fuller Australia cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this technical data sheet in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for the products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request

Version 4
TDS Date: 10/09/2018

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