



FLOORBOND XMS

Description

Floorbond XMS flooring adhesive, based on hybrid technology, is a high strength, high performance flooring adhesive for full contact and over joist flooring installations. Floorbond XMS flooring adhesive is ready to use with no mixing required, it is extremely smooth and easy to trowel. The adhesive creates a strong, permanently flexible bond. It is non toxic and easy to clean up. Floorbond XMS flooring 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, forms stable peaks once applied with a notched trowel
- No gassing or foaming
- Elastomeric, permanently flexible
- Acoustic properties – ISO 140.6 and ISO 140.8 certified#
- 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

When tested in combination with HB Fuller-approved acoustic matt

Uses

- Bonding many types of timber flooring.
- Suitable for porous and non porous substrates
- Suitable for floors with underfloor heating – see installation notes
- In areas where movement and noise need to be absorbed.

Compatible Substrates

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

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

**Floorbond XMS compatibility with bamboo (including SW Bamboo) is dependent on the timber manufacture's installation guidelines. Do not use Floorbond XMS where the timber manufacturer recommends against their boards being adhesively fixed.

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Philippines
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Coverage

Trowel Size	Coverage per kg adhesive	Coverage per 16kg pail
4mm v notch	ca. 0.8-0.9m ²	ca. 13.4m ²
6mm v notch with 12mm centers	ca. 0.9m ²	ca. 13.2m ²

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	ca. 13m ² per 16kg pail ca. 1m ² per 600ml sausage
Skin Time	60-80mins @ 23C
Repositioning Time	~4 hours @ 23C
Cure Rate	3-4mm/day @ 23C
Set to load bearing	Min 24 hours
Sanding / Finishing	Min 24 hours
Shelf Life	12 months unopened
Service Temperature	-40°C to 90°C

Under floor Heating

Floorbond XMS is suitable for laying overlay flooring up to 14mm or parquet floor up to 25mm in thickness when used with underfloor heating systems. Use only stable species of timber when using parquet systems, IE

species that will not be subject to significant expansion and contraction (see your flooring supplier for guidelines). When bonding parquet flooring the underfloor heating systems must have been operated for at least three weeks prior to laying to allow equilibration, even in summer this is required. Before laying parquet floor turn heating system off for 48 hours prior to laying. If bonding parquet floor at low temperatures turn on heating system after bonding and allow to rise 5 °C every 24 hours. Floorbond XMS can withstand heating up to 90°C.

Surface Preparation

Before applying Floorbond XMS the subfloor substrate should be checked to ensure its suitability. 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. Check the moisture content of the substrate with a carbide or electric hygrometer. The moisture content must be as recommended by the flooring manufacturer. In any case where the concrete slabs has a Moisture Content of greater than 5.0% (moisture meter) or in slab relative humidity exceeds 70% (hygrometer test), and the rate of water vapour transmission from the slab is greater than 15g/m²/24 hrs. (Calcium Chloride Test), apply Floorbond MCWB.

Substrate

Refer to Timber manufacturer's installation guides. Before installation of the timber / parquet, the substrate should be checked to

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ensure it is suitable. Check the moisture content throughout the entire thickness of the substrate with a carbide or electric hygrometer. The moisture content must be as recommended by the flooring manufacturer. Concrete slabs that are not suspended should have a polyethylene barrier underneath to avoid rising damp. For fresh concrete and instances where moisture could be present in the concrete, Floorbond MCWB should be applied to the surface of the concrete prior to laying the flooring, as per directions. New concrete must be cured until the moisture content of the slab is less than 5.5% and the rate of water vapour transmission from the slab less than 15g/m²/24 hrs. (Calcium Chloride Test). The time to achieve this is normally at least 28 days.

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 an approved cementitious screed (Refer to HBF Technical department). Using a 6mm trowel for 12-14mm overlay flooring will help fill low points however it is the responsibility of the floor layer to ensure that the timber makes good contact with the adhesive.

When installing a parquet floor on top of marble, terrazzo or ceramic tiles they must be first cleaned with caustic soda or another suitable cleaner. Once cleaned, rinse the tiles thoroughly with plenty of clean water. Ensure the floor is completely dry before applying Floorbond XMS.

Timber flooring

Refer to Timber manufacturer's installation guides. The timber flooring must be acclimatized for several days in the area

where it is to be installed. Leave the timber in its original packaging until installation to avoid any deformation. Check before installation that the moisture content of the wood is as recommended by the supplier, (generally 9-14%). The correct humidity will depend upon the species of timber and the environment in which the timber will be laid. Higher humidity environments will generally use timber with higher humidity and the converse for dry environments.

Allow a gap of 1 to 1.5 cm around the perimeter of the laid timber flooring, including any columns or structures that penetrate the floor.

Applying the adhesive

Floorbond XMS flooring adhesive should be acclimatised to room temperature before installation. Temperature during application and cure should be between 10°C and 35°C*. Cure will be delayed at temperatures below 15°C. Apply the adhesive to the surface by means of a suitable notched trowel (4mm v notch for small size parquetry, 6 mm v-notch with 12mm centres for boards). Do not apply more to the surface than can be covered within 30 minutes. Slide the flooring onto the adhesive layer and tap into place or tamp down with a rubber hammer. Use enough pressure to ensure full constant contact between timber and adhesive. A minimum of 80% contact coverage is required to ensure adequate adhesion. Loading the flooring with weights will improve the final bond strength. Wait at least 24 hours before sanding and finishing the timber flooring.

*Note that in conditions of high temperature and humidity (>30°C & >50%RH), the skin and repositioning time of Floorbond XMS is significantly reduced. In these conditions it is

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important to apply less Floorbond XMS at a time, as the working time is reduced and the product will skin quicker than normal, resulting in poor adhesion to the timber flooring.

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 will be significantly reduced. Care should be taken in these conditions to ensure Floorbond XMS does not skin prior to the timber flooring being applied, otherwise poor adhesion will result. It is recommended in high temperature and humidity conditions that the area that Floorbond XMS is applied to is reduced to ensure adequate adhesive properties.

Clean Up

Uncured Floorbond XMS Flooring 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 flooring 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.

Once opened, the remainder of a pail of Floorbond XMS can be used for up to 6 weeks provided the following steps are taken:

1. Any cured material is removed from the pail
2. The foil disc is placed evenly on top of remaining product, ensuring it is sealed around all edges
3. The plastic lid is placed on top and pressed down securely
4. The pail is stored as per standard storage requirements IE cool, dry place with temperatures not exceeding 30°C.

Limitations

- Do not install to substrates that are not protected from rising damp
- Do not apply the adhesive at temperatures below 10°C or above 35°C*
- Do not apply the adhesive when the relative humidity is above 75%*
- Do not apply Floorbond XMS on a dense burnished concrete surface without prior abrading or sanding back the surface to obtain mechanical key
- Do not install onto a substrate that contains too much moisture or onto substrates with a higher humidity value than recommended by the wood supplier.
- Do not install wood that is too dry (<9% humidity). This can expand at higher humidity or when the humidity rises and cause damage
- Do not install if the walls and ceilings of the area are not dry (e.g. after plastering or painting etc.)
- Do not install on undulating concrete slabs.

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Safety Information

This product is not considered hazardous under the classification of GHS WHS Version 8. Further safety information is available on the product SDS. Avoid contact with skin and eyes. Store in a dry place below 30°C. Keep out of reach of children. An MSDS is available from the H.B. Fuller representative in your state, HB Fuller Australia customer service, or downloadable from the HB Fuller web site, www.hbfuller.com.au.

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