TRIMTEC
UNDERLAY

Trimtec Underlay is a high quality, highly durable underlay product designed to be used over strip timber, particleboard, plywood and concrete floorsto providea flat, uniform, indent resistant base for sheet floor coverings.
Trimtec Underlay is manufactured using an ISO 9001 certified process and complies with AS/NZS 1859.4:1997 - Reconstituted wood based panels - Hardboard. Installation of Trimtec Underlay will be compliant to AS/NZ 1884-2012

PRODUCT DETAILS
Highly resistant to indentations caused by point loads from items such as table legs, chairs, stools, book cases, wall units and high heel shoes.

- 100% Australian made and Owned. Pre-conditioned to the Australian climate, Trimtec Underlay is unlikely to be adversely affected by stability issues.
- Provides a flat, uniform, indent resistant surface on which to lay resilient sheet or tile floor coverings.
- Trimtec Underlay is tough, flexible and resistant to cracking or fracturing.
- The smooth surface of Trimtec Underlay allows even and economical application of adhesive.
- Easy to work and fix with normal wood working tools and flooring installation equipment.

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PHYSICAL PROPERTIES

Dimensions
1220 mm x 915 mm x 5.5 mm

Tolerances (Ex mill)
Length Width Thickness
± 1.0 mm
± 1. 0 mm
± 0.15 mm

Squareness
Variation in diagonals not more than 1.0 mm

Area
1.12 m^2

Packaging
Bulk packs of (120 sheets)

Physical properties
Density 960 kg/m^3
Mass/unit area 5.3 kg/m^2
Modules of rapture 30 MPa
Modules of elasticity 4000 MPa
Impact strength 4000J/m^2
Internal bond strength1000 kPa
Thermal conductivity 0.11 W/mK
Hygro-expansivity 0.25% change in face dimensions over 50% - 90% RH

PREPARATION

Adequate underfloor ventilation is essential to prevent distortion, possible decay and excessive movement of the sub floor, frame support, underlay and overlay. If inadequate ventilation exists, subsequent damage to the floor covering material or adhesive system will occur. This is especially important where impervious final floor coverings are used as these prevent the escape of moisture through the floors.

The moisture content of timber, plywood or particleboard subfloors and their structural supports must be checked before the underlay is installed. Acceptable moisture content range is 9% -14%. Where existing timber, plywood or particleboard floors are to be used as a sub-floor for hard underlay installation, any worn, rough, cupped or warped surfaces must be repaired. Imperfections such as hollows, cracks and uneven joints will affect the quality of the finished floor. The sub floor must be sanded, filled or replaced to achieve a plane, smooth surface prior to the installation of the underlay. The sub-floor must retain its structural adequacy.

CONDITIONING

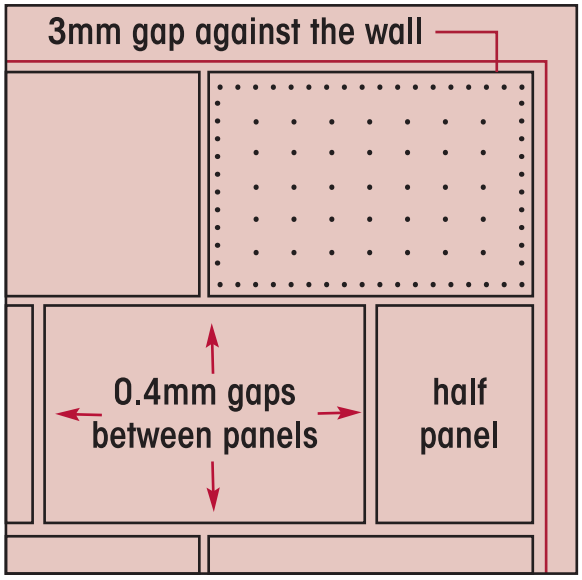
Trimtec Underlay must be conditioned to allow it to reach equilibrium with its surroundings before being fixed to the sub-floor. The most prominent cause of joint show through is failure to properly condition underlay. To condition Trimtec Underlay each individual sheet must be exposed to air circulation in the environment for which it is to be installed for at least 24 hours before being fixed.

Keep clear of sharp protrusions. Stack panels flat on pallets or timber runners in a dry area with moderate temperature and reasonably constant relative humidity. **Storage in direct sunlight, damp locations or hot, dry buildings should be avoided.**

Trimtec Underlay must not be conditioned or fixed when extreme weather conditions (such as relative humilities of less than 25% or greater than 90%) are temporarily experienced. In these situations conditioning and fixing must be delayed until normal weather conditions return.

LAYOUT

Trimtec Underlay is designed to be installed smooth side up. Starting on a straight wall with the long edges of the underlay perpendicular to the sub floor joins. Trimtec Underlay is to be laid using a brick pattern as shown in the diagram.



It is crucial to the performance of the product that the following are provided to allow room for expansion:

- 3 mm gap around the perimeter of the wall
- 0.4 mm gap between sheets

CUTTING

Trimtec Underlay can be cut using the following tools:

- Utility knife (heavy duty blade - not break away type). Using a utility knife is the easiest method of cutting Trimtec Underlay. Simply score the surface of the underlay where the cut is required and snap the underlay. It will break cleanly at the score.
- Circular saw
- Jig saw (fine tooth) or timber blade
- Hand saw (fine tooth) or panel saw

ADHESIVES

ADHESIVES FOR TIMBER SUB·FLOORS

In addition to mechanical fixings, adhesives must be used when Trimtec Underlay is fixed to plywood, particleboard or pine sub-floor. The following adhesives are suitable:

- Polymer 1017 Polyurethane Adhesive or
- Bostik Ultraset Adhesive or
- Giltgrip Super C Adhesives

ADHESIVES FOR CONCRETE SUB-FLOORS

Flexible Polyurethane sealants such as:

- Polymer 1017 Polyurethane Adhesive or
- Bostik Ultraset Adhesive

In case of structural movement or excessive changes in atmospheric relative humidity in a building, the filling of expansion joints in Trimtec Underlay is not recommended.

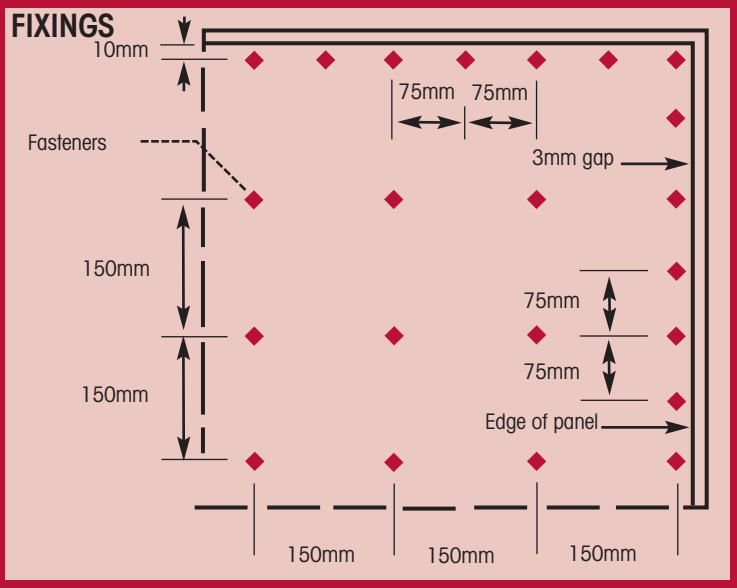
Avoid alkaline substances, as high pH values can promote swelling in natural reconstituted timber products.

FASTENER SPACING

The correct spacing between fixings when installing Trimtec Underlay to timber sub-floors is shown in the Fixings diagram.

Fixings must be provided:
- 10mm in from the perimeter of the sheet
- 75mm around the perimeter of the sheet
- 150mm through the body of the sheet

Avoid nailing into sub-floor joints. Slightly overdrive all fixings to provide a smooth finish product. Ensure that all fixings are 0.4mm (business card or Stanley knife width) below the surface of the Trimtec Underlay.



FIXINGS

FIXING TO A PLYWOOD OR PARTICLEBOARD FLOOR

The following fixings are recommended for installing Trimtec Underlay over plywood or particleboard sub-floors. Fixings must be used in conjunction with an appropriate adhesive (refer to Adhesives manufacturer for further recommendations).
25mm x 2.5mm head ring grooved buttress type underlay nails and 22mm resin coated staples.

FIXING TO A TIMBER SUB-FLOOR

The following fixings are recommended for installing Trimtec Underlay over solid timber flooring.
Staples: 22mm resin coated staples.

FIXING TO A CONCRETE SUB-FLOOR

Ensure the concrete is dry and clean. Dry lay the underlay allowing the recommended expansion of 0.4mm between sheets and 3mm around the perimeter.

Prepare the concrete sub-floor as per the adhesive manufacturer's recommendations. Remove the tiles of Trimtec Underlay and apply adhesive to sub-floor in accordance with the adhesive manufacturers recommendations. Place the Trimtec Underlay sheets into the adhesive and roll with a 40 kg roller weight. Allow the adhesive to cure for the recommended period.

Additional weight may be required if changes in relative humidity delays adhesive bond time or cause the underlay to lift around the perimeter.

FINISHING

Using a flat based sanding machine or sanding block, carefully sand the underlay joins to a level plane. Lightly sand the fixing points to remove any loose fibre.

Sweep or vacuum the floor so that all dust and loose fibre is removed prior to installing the floor covering in accordance with the manufacturers recommendations.

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