



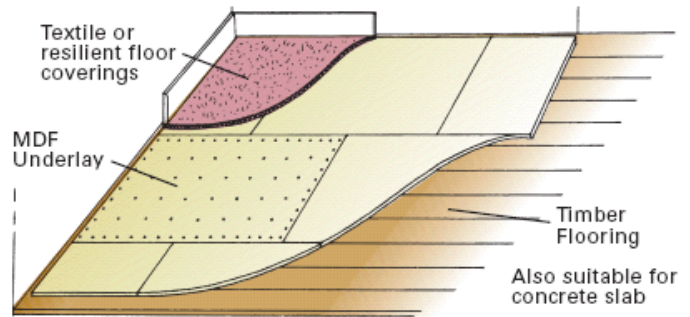
Alpine^{MDF}

Underlay for Floors

Description

ALPINE MDF Underlay is a High Density Fibreboard (HDF) Underlay for floors, is 6mm thick, Moisture resistant, and is specifically manufactured for interior use.

Alpine Underlay is suitable to be laid over timber, plywood, particleboard, fibre-cement sheet and concrete floors to provide a flat, uniform indent resistant base for resilient sheet and tile floor coverings including semi-rigid PVC, cork, rubber, linoleum, cushioned vinyl and textile floor coverings.



Physical Properties

Physical Properties	Alpine Underlay Values
M.O.E MPa	5000MPa
M.O.R MPa	50MPa
Density (kg/m ³)	850
Internal Bond MPa	18MPa
Thickness Swell	<10%

Sheet Size

1220mm x 915mm

Sheet Tolerances mm	Value
Thickness	+ / - 0.2
Length & Width	+ / - 1.5
Squareness	2.00 (Max diff. btwn diagonals)
Straightness	1.50 (Max deviation from line per m)

Substrate Moisture Contact

Alpine Underlay Must never be used where moisture content exceeds 14%.

Product Benefits

- Suitable for private homes, flats, apartments, offices, hotels and institutes.
- Ideal for upgrading worn and uneven floors and correcting irregularities in sub floor timber or wood based sheet metals.
- Consistent thickness for easy laying.
- Strengthens and stiffens subfloor.
- Reduces adverse effects of subfloor dimensional movement.
- Provides a smooth surface for efficient application of adhesive.
- Easy to work and fix.
- No special tools necessary .
- Easy to handle.

Installation

Replace any loose or broken boards. Floor nails must be punched below the floorboard surface.

Alpine Underlay is sufficiently ridged to bridge minor irregularities in the floor surface. The best results are obtained when the floor is machine sanded to a flat pane. Lay sheets in a bricked bond pattern. Allow 0.4mm clearance between panels and 5mm clearance at perimeter walls.



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Overlaying Wooden Floors

Site Conditions

Alpine Underlay must only be installed over floors which are adequately ventilated and where there are no indications of dampness. The cause of dampness must be corrected and the floor allowed to dry.

Subfloor ventilation must provide a clear, cross flow of air beneath the floor so that excessive moisture vapor is removed from the subfloor area. Excess moisture and dampness can lead to the distortion and possible decay of flooring members and excessive movement of the Alpine Underlay.

Adequate ventilation is particularly important where impervious floor coverings are used, as they restrict the escape of moisture through the floor. In some circumstances, a moisture impervious membrane, such as polythene film or bitumen impregnated felt, may be used to cover the ground beneath the floor to retard moisture rising.

Fixing Table for Wooden Floors

Hand Fastening

Nail size (mm)	Fastening Centers	
	Edge (mm)	Inter (mm)
25 x 2.0 or 25 x 2.5mm	75	150

Galvanised steel, flat head ring grooved buttress or underlay type nails recommended.

Power Fastening

Staple Length (mm)	Fastening Centers	
	Edge (mm)	Inter (mm)
22 (7/8")	75	150

Staples to be galvanised, zinc or cadmium plated or resin coated steel. Recommended staple types BEA-90 series, SENCO N4450, HAYBOLD 60 series.

Minimum fixing distance of 10mm from any edge of the sheet is recommended

Finishing

Check that all fasteners are correctly driven and not protruding above the board surface. Carefully sand joints to a flat plane and sand fixing points using a flat-based machine sander or sandpaper block. Do not use disk type sander.

Sweep or vacuum to ensure all dust is removed.

Overlaying Concrete Floors

Site Conditions

Concrete slab floors must be protected from ground moisture by a correctly installed vapor barrier.

Alpine Underlay must not be overlaid on new concrete floors until they have dried thoroughly (<6.0%) to a surface relative humidity reading of 70% or less when measuring using a hydrometer in accordance with AS 1884, Appendix A6, AS2455.1, Appendix B3 or BRANZ Bulletin 388.

As a general guide new concrete slabs require one month of drying for each 25mm of concrete thickness.

Fixing for Concrete Floors

On concrete floors fix with 4mm diameter beads of adhesive applied in a grid pattern at approximately 150mm centers in both directions.

Adhesives

Alpine Underlay has recently been tested by RLA Polymers (adhesive manufacturers), and has gained its recommendation for use with their products.

Refer to relevant manufacturers for adhesive that is suitable for bonding MDF substrate.

Current Relevant Standards

Alpine MDF is now manufacturing an Underlay product made to Dry Process Fiberboard Standard (AS/NZ 1859.2:2004), that will also exceed the specific requirements for General Purpose Hardboard, and Tempered (MR) Hardboard, manufactured in accordance with the Wet Process Fibreboard Standard (AS/NZ 1859.4:2004).

Product Care

Alpine Underlay must **NOT** be stored in areas subject to:

- High humidity
- Water infiltration
- Abnormal temperature variation
- Direct sunlight
- Spillage of liquids



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Product Performance

Alpine Underlay must not be used in exterior applications, must not be exposed to water or high humidity situations (saunas, shower cabinets) and must be kept clear of nearby heat sources such as solid fuel heaters and freestanding fireplaces. Alpine Underlay for Floors is resistant to fungal decay provided that the board does not exceed higher moisture contents for extended periods. It is also resistant to attack by common household woodborer. There are no additives such as insecticides or fungicides.

Durability

Alpine Underlay is expected to have a service life comparable with typical floor coverings provided it remains dry in service.

Environmental Certificates

Alpine MDF Industries Pty Limited is certified for Chain of Custody by **Smartwood**. Wood products certified by Smartwood are recognised as coming from "well managed" forests adhering to strict environmental and socio-economic standards in accordance with the Principles and Criteria of the Forestry Stewardship Council (FSC). Smartwood is a program of the Rainforest Alliance.

Storage

Storage areas containing large quantities of this product must be adequately ventilated.

Further Information

Refer to the **Material Safety Data Sheet** for this product available from Alpine MDF Industries Pty. Ltd. website under the relevant section in products.

Safe Work Practices

Work areas must be well ventilated and kept clean.

Sawing, sanding and machining equipment must be fitted with dust extractors to ensure that dust levels are kept within standards laid down by WorkSafe Australia, Occupational Safety and Health New Zealand, or the specific country of use.

If not, a dust mask conforming to AS/NZS 1715 and AS/NZS 1716 and eye protection conforming to AS/NZS 1337 must be worn.

Off-Cuts, shavings and dust must be disposed of in a manner that avoids the generation of dust and in accordance with the requirements of local waste disposal authorities.

In end use applications all product surfaces exposed to occupied space must be sealed.

Technical Advisory Service

Alpine Underlay is manufactured in **Australia by Alpine MDF Industries Pty Ltd** to the highest standards of quality and consistency.

The company will assist you in all aspects of technical advice.

You are invited to call the Technical Manager for technical information to fixing techniques, design performance, fire resistance and questions relating to specific performance criteria.

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