

CEMINTEL[®]

DESIGN AND INSTALLATION GUIDE



CERAMIC TILE UNDERLAY
Residential Interior Wet Area Flooring System

CSR

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DESCRIPTION

Cemintel® Ceramic Tile Underlay is an autoclaved, cellulose fibre reinforced cement sheet. Ceramic Tile Underlay has a smooth sanded finish which provides a suitable base for laying ceramic tiles over a timber floor.

ADVANTAGES

- Immune to permanent water damage, and will not rot.
- Fire resistant.
- Termite resistant.
- Simple and quick to install.
- Includes a nailing pattern printed on the face of the sheet for easy installation.

MATERIAL PROPERTIES

Cemintel Ceramic Tile Underlay conforms to the requirements of AS2908.2 'Cellulose-cement products - Part 2: Flat sheets'.

MASS

Cemintel Ceramic Tile Underlay is nominally 6mm thickness and approximately 9.4kg/m².

FIRE RESISTANCE

Cemintel Ceramic Tile Underlay is deemed to be non-combustible and has the lowest possible 'Early Fire Hazard Indices' when tested in accordance with AS1530.3.

Ignitability	0
Spread of Flame	0
Heat Evolved	0
Smoke Developed	0
Smoke Growth Rate Index	0
Group Number	1

COMPONENTS

CEMINTEL CEMENT TILE UNDERLAY

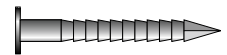
Cemintel Ceramic Tile Underlay has a smooth sanded surface and is manufactured in the following size:

Sheet Length (mm)	Thickness – 6mm
	Width (mm)
	900
1800	✓

FASTENERS

Fibre Cement Underlay Nails:

Product Code: 77253
2.5mm x 25mm.



Alternatively, suitable power driven nails may be used. Refer to nail manufacturer's recommendations.

FLEXIBLE SEALANT

- Dow Corning Brick and Concrete Crack Sealant,
- Selleys Brick and Concrete Sealant,
- Approved equivalent for concrete use.

HANDLING AND STORAGE

All Cemintel Fibre Cement materials must be stacked flat, off the ground, and supported on a level platform. Care must be taken to avoid damage to edges, ends and surfaces. Material must be kept dry, preferably by being stored inside the building. Where it is necessary to store material outside, it must be protected from the weather.

Sheets must be dry when fixing, jointing and finishing.

CUTTING

When cutting or grinding fibre cement sheets using power tools, always ensure the work area is well ventilated. An approved dust mask (AS1715 and AS1716) and safety glasses (AS1337) must be worn. Cemintel recommends that hearing protection be worn where appropriate.

The following implements can be used for cutting:

- Power Saw with Dust Extraction System.
- Tungsten Tipped Score and Snap Knife.
- Hand Guillotine.
- Hand Saw.

INSTALLATION

PREPARATION

Prior to fixing underlay sheets into place, the following steps should be taken:

- Ensure there is adequate ventilation under the timber floor to prevent distortion and excessive movement.
- Check timber floor for dampness and allow to dry before fixing underlay.
- Check existing floor boards to make sure there are no loose boards. Re-nail any that have come loose.
- Ensure existing floor boards are reasonably flat. Any that have worn, warped or cupped should be sanded or filled to minimise variations.
- Particleboard and Plywood flooring must be swept, and any polish or varnish removed to ensure adhesive bond.

FIXING SHEETS

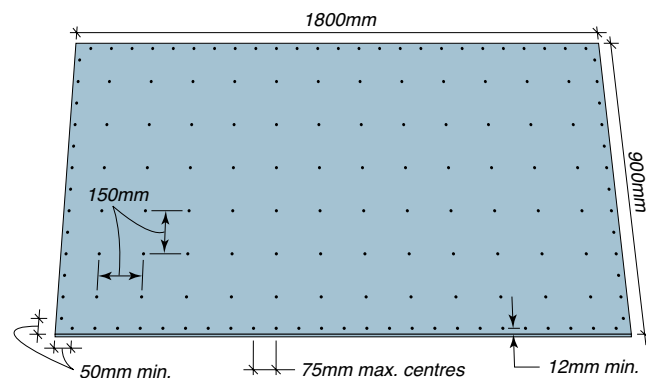
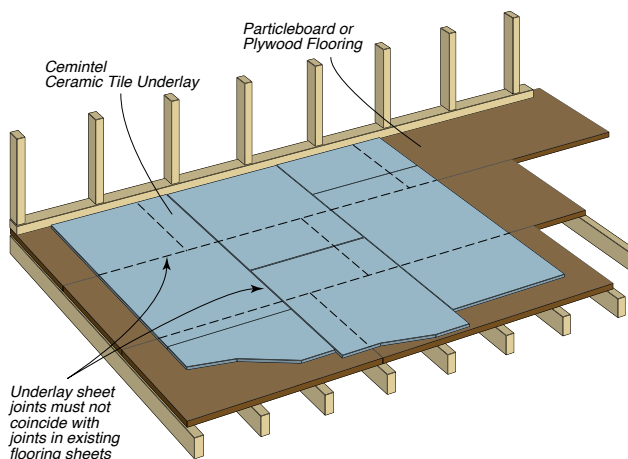
Plan sheet layout to minimise cutting and waste.

Sheets must be laid in a staggered pattern and at 90° to direction of existing floor sheets/boards. Sheets must be butted tightly together and joints must not coincide with joints in the existing floor boards or sheets (see below). Underlay sheets should finish approximately 3mm from walls and other projections.

Position fasteners at maximum 150mm centres in the body of the sheet and maximum 75mm centres at sheet edges. Begin in centre of sheet, working out towards sheet edges.

Fastener heads must be driven flush with the sheet surface.

Note: If underlay is laid over particleboard or plywood flooring, in addition to nailing, the underlay must be adhered to the floor using CSR Gyprock® Acrylic Stud Adhesive at 150mm centres. Apply with a notched trowel.

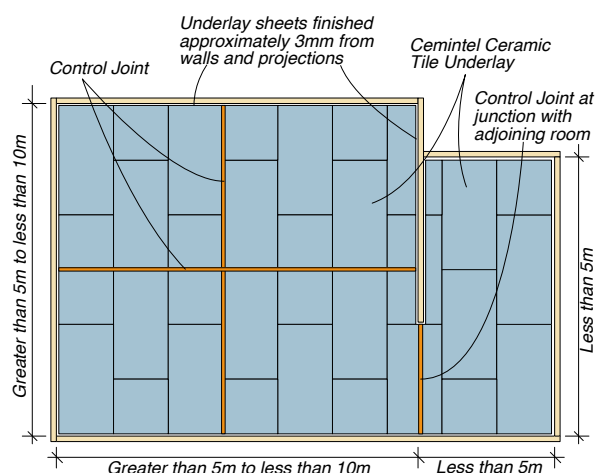
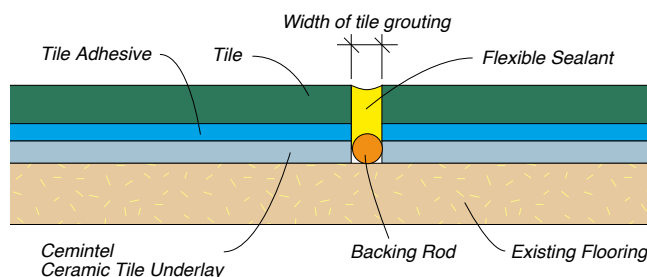


CONTROL JOINTS

Control joints are to be provided in floors to allow movement through both the underlay and the tiles. Control joints should be placed symmetrically around the room, and be approximately the same width as the tile grout. Tiles must not cover control joints.

Control joints are required in the following situations:

1. Where the floor exceeds 5m in either direction. Additional control joints will be required if floor exceeds 10m in either direction.
2. Where existing structural joints are provided.
3. Where floor is continued into an adjoining room.



TILE LAYING

Prior to laying tiles, the underlay must be dry, and should be swept to remove dust that may affect the adhesive bond. Tiles should be installed in accordance with the tile manufacturer's instructions.



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