

knauf

FOR NEW STRENGTH ON OLD WEAKNESSES

AQUAPANEL® Cement Board Floor Tile Underlay
The ideal thin substrate for tiles on wooden subfloors



AQUAPANEL®

CONSISTENCY INSTEAD OF COMPROMISE

Finally you have all the freedom you need to lay tiles on wooden subfloors. For Refreshing aesthetics that can even be perfectly integrated with the charm of historic architecture.



Long live the tile – even on wood

There is no question about it: tiled and natural stone floors have their own particular charm. They also give endless scope for design. Be it in the bathroom, the kitchen, the bedroom, the living room or the entrance area. Whether it is in offices, department stores, exhibition areas or hotels.

Wherever stone floors are laid, they are characterised by a number of good properties. They exude an aesthetic, natural and valuable quality and give any ambience its very own character. In addition, they are very practical, as they are extremely durable and hard-wearing, and at the same time easy to clean. Looking at it this way, it is no wonder that tiles and natural stone are increasingly gaining ground.



But what do you do when a new plan, redevelopment or renovation project calls for a nice, new stone floor to be installed on a more or less old wooden structure?

› The answer in each case is quite simple:

with AQUAPANEL® Cement Board Floor Tile Underlay, the flooring tiles can be set perfectly in place on any wooden subfloor.



TILE ON WOOD WITH AQUAPANEL® CEMENT BOARD FLOOR TILE UNDERLAY

How systematically achieve the best results.

AQUAPANEL® Cement Board Floor Tile Underlay is a light and highly stable dry floor panel and is the ideal substrate for all kinds of tiles on wooden subfloors, including ceramic, mosaic, or natural stone. In order to allow a particularly high load-bearing capacity, the cement boards are reinforced on the long edges (EasyEdge™).

As an inorganic cement board, AQUAPANEL® Cement Board Floor Tile Underlay is resistant to water and mildew therefore perfectly suited for wet and humid floors.



LOW WEIGHT, EASY INSTALLATION

So that everything goes seamlessly without any problem

Despite its tremendous stability, the AQUAPANEL® Cement Board Floor Tile Underlay is very light and only 6 mm thick. It therefore provides the best conditions particularly in cases where only a very low construction height is available. It also helps to ensure an even and seamless transition between tiles and carpet, for example, and to prevent thresholds from having to be adapted or replaced. Even when a very low floor height is required, nothing stands in the way of a quick and easy installation.



AQUAPANEL® Cement Board Floor Tile Underlay is:

- best solution for very low floor heights with only 6 mm board thickness
- suitable for all kinds of tiles including ceramic, mosaic and natural stone
- extremely light material, easy to handle
- quick and simple floor construction – easy to score and snap
- no pre-drilling required
- solid Portland cement substrate
- EasyEdge™ – the particularly shock-proof edge on both sides
- 100 % water-resistant
- resistant to mould and mildew

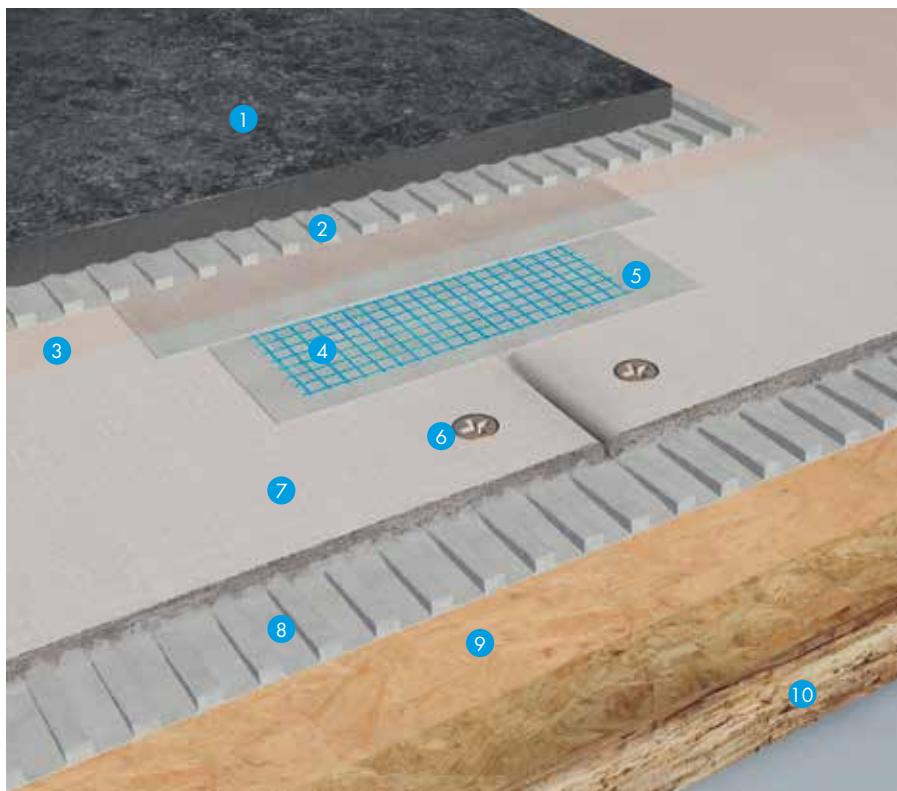


Physical properties of AQUAPANEL® Cement Board Floor Tile Underlay

Length (mm)	1200
Width (mm)	900
Thickness (mm)	6
Weight per unit area (kg/m²)	ca. 8.5
Dry density (kg/m³)	ca. 1250
Building material class according to EN 13501	A1

Minimum subfloor thickness depending on centre distance of wooden joists

Distance of wooden joists	40 cm	60 cm	80 cm
OSB 3 acc. to EN 300	18 mm	18 mm	22 mm
Chipboard category P5 acc. to EN 312	19 mm	22 mm	–



Notes about the subfloor:

The wooden underlay should be made of OSB 3 (according to EN 300), chipboard (Category P5, according to EN 312) or plywood (according to EN 636). The panel joints must be backed or connected to each other by tongue and groove. The surface must be even; the deflection of the wooden underlay (panelling) must be $L / 400$ maximum. The existing floor joists must satisfy the building's structural requirements. The maximum deflection of the wood joists must not exceed $L / 300$.

The floor construction with AQUAPANEL® Cement Board Floor Tile Underlay:

- 1 Tile
- 2 Tile adhesive
- 3 AQUAPANEL® Board Primer
- 4 AQUAPANEL® Tape (10cm)
- 5 Tile adhesive
- 6 AQUAPANEL® Maxi Screw SN 25
- 7 AQUAPANEL® Cement Board Floor Tile Underlay
- 8 Tile adhesive
- 9 AQUAPANEL® Board Primer
- 10 Wooden subfloor

HIGH QUALITY AQUAPANEL® PRODUCT SYSTEM

Make the choice now for a superior system solution that bonds ceramic tiles with wooden subfloors in a reliable, stable and simple manner.

AQUAPANEL® Cement Board Floor Tile Underlay is part of a complete system. The fact that the coordinated components of the AQUAPANEL® System work perfectly together ensures that the overall design works in every respect from a material point of view. AQUAPANEL® Cement Board Floor Tile Underlay is best used with our recommended screws for wooden subfloors and the system's own joint tape. Thus, users benefit from optimum compatibility and easy access to all components needed. For more information about these and all other AQUAPANEL® products, visit us at www.aquapanel.com.



AQUAPANEL® Cement Board Floor Tile Underlay
is a light, highly stable, cementitious dry floor panel which provides the ideal thin substrate for all kinds of tiles on wooden subfloors.



AQUAPANEL® Board Primer
is a ready-to-use synthetic emulsion for priming AQUAPANEL® Cement Boards Floor Tile Underlay to provide maximum adhesion of floor coverings.



AQUAPANEL® Tape (10 cm)
is a glass-fibre mesh with an alkali-resistant coating, and is used to reinforce the joints.



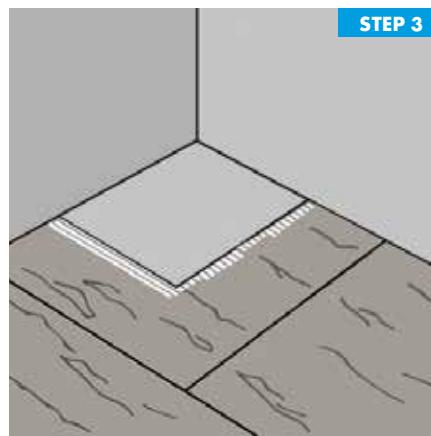
AQUAPANEL® Maxi Screws SN 25
are specially developed for fastening AQUAPANEL® Cement Board Floor Tile Underlay and come with a highly effective corrosion protection.



Prime the subfloor with AQUAPANEL® Board Primer (dilution 1:1). Allow half a day for drying.



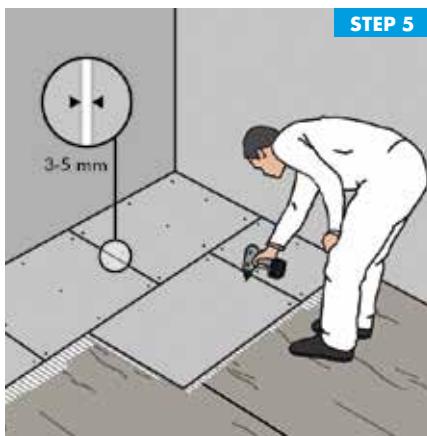
Apply a flexible tile adhesive (class C2/S1 acc. EN 12004/12002 is recommended).



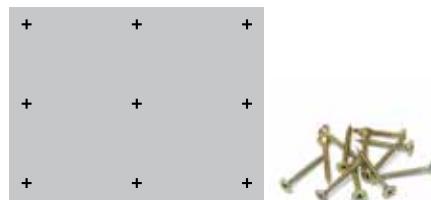
The first AQUAPANEL® Cement Board Floor Tile Underlay panel is fitted in the corner of the room.



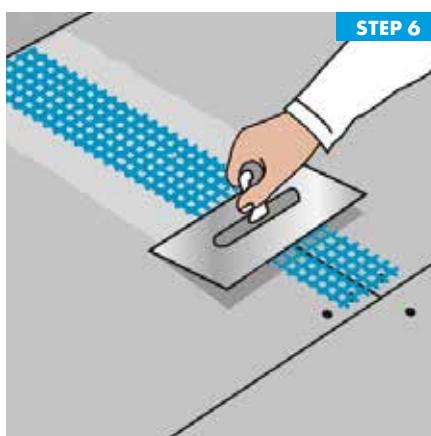
Make sure that the panel is laid in such a way that there is a staggered joint (minimum 200mm staggering) between the wooden subfloor and panel.



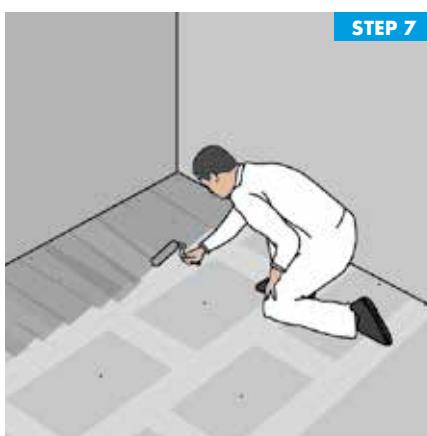
Screw the panel to the subfloor immediately after laying by using AQUAPANEL® Maxi Screws SN 25. When laying subsequent panels, make sure there is a planned gap of 3-5 mm between the panels. Always start in the utmost corner across from the door to avoid stepping on the boards during processing.



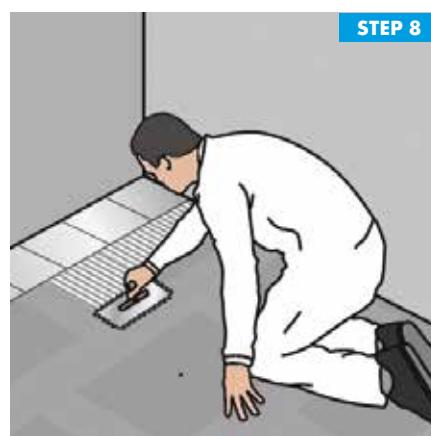
Nine screws per board evenly distributed with a minimum distance from the board edge of 15 mm.



Fill all the joints with flexible tile adhesive (class C2/S1 acc. EN 12004/12002). Then embed AQUAPANEL® Tape (10 cm). Allow the tile adhesive in the joints to dry.



Apply AQUAPANEL® Board Primer (dilution 1:2) over the entire surface of the AQUAPANEL® Cement Board Floor Tile Underlay. After the primer has dried (approx. 12 hours, depending on the climate conditions) it is possible to continue with the next stage.



Glue tiles onto the primed surface of the AQUAPANEL® Cement Board Floor Tile Underlay panel using flexible tile adhesive (class C2/S1 acc. EN 12004/12002, referring to the manufacturer's data and guidelines of the tiling trade). Please find further information about acceptable tile sizes in the technical data sheet.

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