



The Chemical Company

Two part adhesive

Timberflex

Cement based flexible adhesive for fixing to interior timber floors

FIELDS OF APPLICATION

- Tiling to timber floors has always been a challenge for specifier's and tilers themselves. PCI TIMBERFLEX is capable of fixing glazed, vitrified, fully vitrified and porcelain tiles to almost any type of indoor timber floors. Speed of access to follow on trades and suitable over under- tile heating. It is also suitable for tiling on other substrates such as sand/cement screed etc.

FEATURES AND BENEFITS

- No Priming necessary
- Suitable for thin bed applications, as defined by BS 5385
- Ultimate performance
- It conforms to EN12004 Type C Class 2F
- Capable of being walked on and grouted, in suitable conditions, after approximately 2 hours
- Can be used over suitable under-floor and under-tile heating

WORKING WITH TIMBERFLEX

- Timber surfaces to be tiled must be clean, sound, dry and free of polish, paint, or any other bond inhibiting substances. This may mean that the timber requires sanding. The timber must be flat enough to require an adhesive bed of no more than 6mm.
- T&G floors must be of good quality, adequately supported and competently installed in accordance with best building practices. Each board should be screw fixed with 2 screws per board width per joist at minimum 300 mm centres. Overboard with WBP plywood screwed through to the joists – with the underside primed with Primer W as per BS 5385 Pt 5. Chipboard must be either overboarded with plywood, or covered with PCI Pecilastic separating membrane.
- For full detailed instructions refer to: "Timberflex Guidelines - Preparation of Wooden Substrates for Tiling".
- Plywood, chipboard and other sheet materials must be fixed in accordance with the board manufacturer's instructions. They should be screw fixed at maximum 300mm centres with all joints and edges supported.
- All types of timber flooring should have adequate under-floor ventilation
- It is important that prior to fixing that floorboards/sheets have had a chance to reach a state of equilibrium, in relation to relative humidity, with its new surroundings.
- It is not recommended to install timber floors in wet areas, nor do we recommend tiling to 'floating' floors.

Cement/sand screeds, concrete slabs

- Timberflex can be confidently used on adjacent concrete/screeded floors. It is essential that good practices are followed in this type of installation i.e. movement/expansion joints installed where background materials change from wood to concrete/cement sand screeds.

MIXING TIMBERFLEX

Place the liquid component in a suitable container. Add the powder while mixing with a mechanical stirrer running at approximately 400rpm to provide a lump free material. *If the correct proportions are varied the correct adhesive performance will not be achieved.*

FIXING THE TILES

- Use a notched trowel. Apply adhesive to a depth of approximately 3-6mm with the straight edge of the trowel and immediately comb into a series of well formed ribs with the notched edge; select a notch size/spacing that will ensure that adhesive transfers to at least 65% of the tile back
- **Always position the tile with a good twist and slide action to ensure good contact and adhesion.**
- Tiles must be fixed within 15 minutes of spreading the adhesive; sooner if site conditions may lead to rapid drying of the adhesive surface.

TECHNICAL DATA

Liquid component	
Colour	Liquid – white Dry film – opaque
Type	Acrylic co-polymer emulsion
Powder component	
Colour	Grey
Type	Special cements
Mixed	
Maximum bed thickness	6mm
Mixing ratio	12.5 kg powder to one 5 ltrs liquid
Working temperature	5°C to 30°C
Open time	Approx. 10 minutes
Pot life	Approx. 30 minutes
Walkable/groutable	Approx. 2 hours
Coverage	Approx. 5.2m ² with a 6 mm notched trowel

- Remove a tile occasionally to check on the standard of achieved bedding.
- Never add liquid or powder to a mix that has started to set.
- Ensure any residual adhesive on the surface of the tile or squeezing through the joints is washed off immediately. Once the product has hardened it will be difficult to remove.
- Do not apply at substrate temperatures below 5°C or in conditions of extreme heat.
- Expansion joints must be provided in accordance with the relevant section of BS 5385

GROUTING THE JOINTS

Allow the adhesive to firm up sufficiently before grouting is attempted. This will be at normally at least 2 hours, but may extend depending on the substrate and site conditions.

CLEANING

Tools should be cleaned with fresh water immediately after use.



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PACKAGING

Strong paper polyethylene lined sacks and poly bottle

STORAGE

Shelf life approximately 12 months when stored un-opened in cool dry conditions. As common with most rapid setting cements extended storage slows down setting times. The liquid should also be stored in a frost free environment

HEALTH AND SAFETY

TIMBERFLEX powder contains cement. Care should be taken to avoid inhalation or ingestion of the product. When mixed with water alkali is released and skin irritation, or burning, can result from prolonged contact; this should be avoided by the use of gloves and masks etc. Splashes should be washed off immediately with water. If it comes in to contact with the eyes, flood with water for several minutes and seek medical attention. Keep away from children. TIMBERFLEX liquid presents a negligible hazard in normal use. Keep away from eyes. If the product enters the eyes, wash out with plenty of water. Do not allow to dry on the skin. Keep away from children.

For further information refer to the PCI Material, Safety Data Sheet.

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