

FIX & GROUT CONCRETE & TIMBER FLOORS

Water-based, mould resistant, ready to use high performance tile adhesive and grout for floors



CLASSIFICATION ACCORDING TO UKCA & CE EN 12004

Fix & Grout Concrete & Timber Floors is a dispersion adhesive (D) with improved (2) and extended open time (E) characteristics giving a classification of D2E.

WHERE TO USE

For use on internal floors only. Suitable for use in domestic kitchens and bathrooms. For the installation of ceramic and porcelain tiles. For fixing onto sand: cement screed, concrete, securely fixed tongue and groove P5 grade chipboard (ceramic tiles only) floor boards, 15 mm exterior grade plywood overlay and tile backer boards.

Some application examples

Fix & Grout Concrete & Timber Floors is used for bonding and grouting ceramic and porcelain tiles.

Please note: If used with a porcelain tile the drying times will be greatly increased.

Recommended for normal household installations kitchen, bathrooms, conservatories and other household areas.

Ensure that all substrates are fully cured and dry before commencing tiling.

If fixing to a new timber substrate, the timber must be allowed to acclimatise to the room atmospheric climate. Dusty surfaces may be primed with **Eco Prim T Plus** diluted 1:2 with water, or **Primer G** diluted 1:1 with water. Allow to fully dry before tiling.

TECHNICAL CHARACTERISTICS

Fix & Grout Concrete & Timber Floors is a flexible aqueous dispersion based adhesive of D2E classification. Based on fine-graded mineral fillers, additives and mould resistant BioBlock Technology..

Fix & Grout Concrete & Timber Floors has mould-resistant BioBlock (R symbol) Technology.

Fix & Grout Concrete & Timber Floors is easy to trowel to most timber and concrete surfaces.

Fix & Grout Concrete & Timber Floors sets as the water it contains evaporates forming an extremely strong bond between tile and substrate. It is resistant to the normal vibration found in domestic dwellings.

Fix & Grout Concrete & Timber Floors although flexible will only perform if the substrate has been rigidly fixed following British Standard installation guidelines. When used as a grout it is water resistant for application on floors in kitchens and most domestic bathrooms.

Fix & Grout Concrete & Timber Floors hardens without shrinking in joints up to 6 mm. Due to the product being non-thixotropic, is not suitable for walls.

RECOMMENDATIONS

- Fix & Grout Concrete & Timber Floors is not suitable for heavy duty wet areas or in areas of constant water immersion, e.g. communal showers, power showers or swimming pools.
- Fix & Grout Concrete & Timber Floors can be used on shower floors provided that the MAPEI Shower Waterproofing Kit has been installed and the tile is absorbent.
- Fix & Grout Concrete & Timber Floors is for use on interior floors only.

- Do not grout until the adhesive has dried. This is usually within 24-48 hrs depending on the tile, substrate type and ambient temperature. When using porcelain tiles drying times will be greatly extended.
- Do not use on metallic surfaces.
- Only use **Fix & Grout Concrete & Timber Floors** on moisture resistant grade timber which is fixed rigidly in place using screws.
- Do not use for bonding non-absorbent materials on non-absorbent surfaces i.e. porcelain tiles must be fixed to an absorbent substrate. At least one of the surfaces must be absorbent.
- Do not exceed a tile size of 300 x 300 mm.
- Do not exceed bed depth of 3 mm.

APPLICATION PROCEDURE

Preparation of the substrate

Ensure the substrate is flat, firm, dry and free from contamination such as paint, polishes, old adhesive residues, grease, laitance and dust. Remove these residues by mechanical means i.e. abrasion. If fixing to old concrete or sand; cement screeds, prime with **Eco Prim T Plus** diluted 1:2 with water, or **Primer G** diluted 1:1 with water.

New concrete should be left to cure for a minimum of 6 weeks, sand:cement screeds allowed to cure for a minimum of 3 weeks. Calcium sulphate screeds must be fully dry. They must be mechanically abraded to remove all laitance, remove all dust created and prime with **Eco Prim T Plus** diluted 1:2 with water, or **Primer G** applied neat. Refer to manufacturer's recommendation for drying times.

Once priming has taken place tiling can usually commence after 1-2 hours.

Applying the product

Stir the product thoroughly prior to application.

Apply the adhesive using a suitable notched trowel to ensure a solid continuous layer of adhesive supports the tiled finish. Spread the adhesive over no more than 1 m² before applying tiles. The open time of the adhesive is approx. 40 minutes depending on the porosity and type of substrate and the temperature of the room. Apply the selected tile in to the fresh adhesive bed using a twisting/sliding motion, ensuring 100% coverage is achieved.

Check by lifting a tile to see this coverage is maintained. Apply an additional layer of adhesive to the rear of larger tiles, ensuring the bed depth is at a maximum thickness of 3 mm.

Clean any residues from the tile face immediately. If a matt finish or rough textured tile is used please be aware the **Fix & Grout Concrete & Timber Floors** will dry in the pores of the tile. It is essential to clean off immediately.

GROUTING AND MOVEMENT JOINTS

Do not grout until the adhesive has dried. This is usually within 24-48 hrs depending on the tile and the substrate. Using a MAPEI grout squeegee/rubber float, spread the **Fix & Grout Concrete & Timber Floors** firmly into the tile joints ensuring a full joint is achieved. Wipe off all excess grout immediately using a lightly dampened sponge or a white coloured MAPEI emulsifying pad. Do not over wash the grout during the cleaning off process as this may introduce air bubbles or, pin holes into the grout surface or colour inconsistency.

Movement joints should be filled with **Mapesil AC**.

SET TO LIGHT FOOT TRAFFIC

Floors are able to take light foot traffic after a minimum of 24-48 hours, provided that the product had set hard. Lower temperatures, bonding porcelain tiles and/or substrates that have low or no porosity will extend the setting time.

READY FOR USE

Areas can be put into full service after 7-14 days depending on the absorption of the substrate.

CLEANING

Immediately remove residues of adhesive or grout from the tiles using a damp sponge.

Do not over wash the grout joints. Remove hardened residues with a white emulsifying pad.

CONSUMPTION

As an adhesive using a standard trowel - coverage approx 3-5 m² per 15 kg bucket. When grouting a tile 300x300x10 mm with a 5 mm Joint, the coverage will be approx 0.5 kg m².

Please note: The above figures are separate calculations and are not valid for the product used as both adhesive and grout i.e. the quantity used for grouting will be additional to the quantity used for tiling.

PACKAGING

15 kg buckets.

STORAGE

Store off the ground in a cool dry environment, free from frost and direct sunlight. Protect from sunlight. **Fix & Grout Concrete & Timber Floors** has a shelf life of 12 months. Once opened it is recommended to apply a layer of polythene or similar on top of the product in the tub if it will not all be used at once. This will help maintain the shelf life of the product, however it is recommended to use the product soon after opening.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.co.uk.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA

TECHNICAL DATA (typical values)	
Conformity with:	– European Standard EN 12004 as D2E
PRODUCT IDENTITY	
Consistency:	soft paste
Colour:	grey
Density (g/cm ³):	1,60
Dry solids content (%):	80 ± 0,5
Brookfield Viscosity (mPa·s):	650,000 ± 50,000
APPLICATION DATA (at +23°C - 50% R.H.)	
Application temperature range:	from +5°C to +35°C
Open time (according to EN 1346):	40 minutes
Adjustability time:	50 minutes
Grouting:	after 24 hours
Ready for use:	after 7-14 days depending on the absorption of the surface
FINAL PERFORMANCES	
Shear adhesion strength according to EN 1324 (N/mm ²):	
– initial shear adhesion strength:	> 1
– shear adhesion strength after heat ageing: exceeds minimum requirements of BS EN 12004 type D2E	> 1
– shear adhesion strength after water immersion:	> 0,5
– shear adhesion strength after elevated temperature:	> 1
Resistance to moisture:	good
Resistance to ageing:	excellent
Resistance to solvents and oils:	poor
Resistance to acids and alkalis:	poor
Temperature resistance in service:	from –30°C to +90°C
Deformability:	highly deformable

N.B.

Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that the end users satisfy themselves that the product and conditions are suitable for the envisaged application.

No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification.

End users should ensure that our latest product data and safety information sheets have been consulted prior to use.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.co.uk

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.co.uk.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

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