

# WATERPROOF FIX & GROUT

Water-based, mould resistant, ready to use high performance adhesive and grout for use in dry and wet duty areas



## CLASSIFICATION ACCORDING TO EN 12004 & UKCA

**Waterproof Fix & Grout** is a dispersion adhesive (D) improved (2) with no vertical slip (T) with extended open time (E) of class D2TE.

Conformity of **Waterproof Fix & Grout** is declared in TT certificate no. (103171)-15042 issued by Ceram UK.

## WHERE TO USE

Mapei **Waterproof Fix & Grout** is suitable for fixing and grouting ceramic tiles and mosaics in interior locations such as kitchens, bathrooms, utility rooms and shower areas. Can also be used to bond porcelain tiles provided they do not exceed 200x200 mm and that the substrate is porous i.e. do not attempt to bond porcelain tiles to an impervious substrate such as existing tiles or a waterproof membrane. For fixing tiles to walls onto substrates including plaster, plasterboard, existing tiled finishes, tilebacker boards, sand:cement render, concrete, WBP or marine grade plywood.

### Some application examples

**Waterproof Fix & Grout** resists the formation of mould using MAPEI's trademark **BioBlock** technology and is therefore ideally suited for the installation of ceramic/porcelain tiles and/or mosaics in domestic installations such as kitchens and bathrooms. Suitable for use in showers including power showers where the MAPEI Shower waterproofing kit has been used. Ensure that the substrate is fully cured and dry before commencing tiling. Plaster must be a minimum of 28 days old and render 14 days. Ensure that the weight limits for plaster (20 kg/m<sup>2</sup>) and plasterboard (32 kg/m<sup>2</sup>) are not exceeded. Remove as much dust as possible but where small amounts remain, prime with MAPEI **Primer G** diluted 1:1 with water. Very porous substrates such as old plaster should also be primed with diluted **Primer G**. Allow the primer to dry. Do not prime impervious substrates such as old tiles. Board substrates should be rigidly screw fixed to an adequate supporting framework and be constructed in such a way as to provide a firm, stable substrate. Remove and replace hollow areas e.g. loose plaster and repair cracks with a suitable filler. When bonding to old tiles, remove cracked, damaged or hollow sounding tiles and repair with a suitable mortar.

## CHARACTERISTICS

**Waterproof Fix & Grout** is an aqueous dispersion based adhesive classified as D2TE and based on acrylic resins, fine-graded mineral fillers and additives. Mould resistant BioBlock Technology.

**Waterproof Fix & Grout** is a viscous paste that can be easily trowelled on vertical surfaces. Once positioned the tiles remain in place, thanks to its excellent initial grab and slip resistant properties.

**Waterproof Fix & Grout** sets as the water it contains evaporates when it forms an extremely strong bond between tile and substrate. It is resistant to the normal vibration found in domestic dwellings. As a grout it is water resistant for application on walls in kitchens, bathrooms and showers.

**Waterproof Fix & Grout** hardens without shrinking in joints of up to 4 mm.

## RECOMMENDATIONS

• **Waterproof Fix & Grout** is not suitable for use externally, in heavy duty wet areas or in areas of constant water immersion, e.g. communal showers or swimming pools.

- **Waterproof Fix & Grout** can be used in power showers provided the MAPEI Showers Waterproofing Kit has been installed.
- **Waterproof Fix & Grout** is for use on interior walls only.
- Do not grout until the adhesive has dried completely. This is usually within 24-48 hrs depending on the tile size, substrate type and ambient temperature. Lower temperatures can lengthen this time period.
- Do not use on metallic surfaces.
- Do not use with natural or agglomerate stone tiles or tiles that exceed 300x300 mm (200x200 mm when porcelain).
- Do not use for bonding non-absorbent materials to non-absorbent surfaces i.e. porcelain tiles must be fixed to an absorbent substrate. At least one of the surfaces must be absorbent.

## APPLICATION PROCEDURE

Ensure the substrate is flush and plumb, firm and 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. Prime dusty or extremely porous surfaces with **Primer G** diluted 1:1 with water.

New plaster should be left to fully cure for a minimum of 28 days and render for a minimum of 14 days. If the plastered walls have been finished to a shiny glass like finish it is essential to roughen the surface using e.g. a wire brush. Remove all dust created and prime with **Primer G** diluted 1:1 water. Ensure all substrates are fully dry before commencing tiling or priming.

Once priming has taken place tiling can usually commence after 1-2 hours, however wait until the primer has dried. Spread the adhesive over no more than 1 m<sup>2</sup> before applying tiles. The open time of the adhesive is approx. 30 mins depending on the porosity and type of substrate and the temperature of the room.

Apply the adhesive using a suitable trowel to ensure at least 65% contact in dry areas and a solid layer of adhesive in wetter areas. Generally a larger size notch will be required for larger format tiles. Do not exceed tile size of 300x300 mm. Check the coverage by lifting a tile occasionally and inspecting.

Apply an additional layer of adhesive to the rear of larger tiles. Clean any residues from the tile face immediately. If a matt finish or rough textured tile is used please be aware that the **Waterproof Fix & Grout** will dry in the pores of the tile. It is therefore essential to work carefully and to clean the grout off immediately. It is recommended that a trial area be carried out to ensure compatibility between tile and grout. Do not start to grout until the adhesive has dried. This is usually within 24-48 hrs depending on the tile, the substrate and the temperature.

Before commencing grouting ensure that the product is clean and has not become contaminated during the tiling process. Use a MAPEI grout squeegee/rubber float to push the **Waterproof Fix & Grout** firmly into the tile joints ensuring a full joint is achieved. Strike off as much material as possible from the tile face using the squeegee diagonally to the tile face. Wipe off the remaining excess grout within 5 to 10 minutes using a lightly dampened sponge or a white coloured MAPEI emulsifying pad. Use a circular motion over the tiles but do not over wash the grout during this cleaning process as this may introduce air bubbles or pin holes into the grout surface. Strike the joints with the edge of the sponge to leave a neat finish.

Once dried buff up the tiles with a clean, dry cloth.

## COVERAGE/CONSUMPTION

As an adhesive in a dry area using a standard notched wall trowel - coverage up to approx. 3-4 m<sup>2</sup> per 7.5 kg bucket, 1.5-2 m<sup>2</sup> per 3.75 kg bucket and 0.6-0.8 m<sup>2</sup> per 1.5 kg tub. When grouting a tile 150 x 150 x 6 mm tile with a 2 mm joint this coverage will be approx. 0.3 kg/m<sup>2</sup>.

**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

1.5 kg, 3.75 kg and 7.5 kg.

## CLEANING

Do not allow the product to dry on the tile face. Immediately remove residues of adhesive or grout from the tiles using a damp sponge. Do not over wash the grout joints. Hardened residues can only be removed mechanically.

## STORAGE

12 months in original sealed packaging. Store off the ground in a cool dry environment free from frost and damp. Protect from sunlight.

## 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](http://www.mapei.co.uk).



<b>TECHNICAL DATA (typical values)</b>	
Conformity with: <ul style="list-style-type: none"> <li>- European Standard EN 12004 as D2T</li> <li>- UKCA 12004</li> </ul>	
<b>PRODUCT IDENTITY</b>	
Consistency:	thick paste
Colour:	white
Density (g/cm <sup>3</sup> ):	1.55
Dry solids content (%):	77 ± 0.5
Brookfield viscosity (mPa·s):	900,000
<b>APPLICATION DATA (at +23°C - 50% R.H.)</b>	
Application temperature range:	from +5°C to +35°C
Open time (according to EN 1346):	30 mins
Adjustability time:	30 mins
Grouting:	after minimum 24 hours
Ready for use:	after 7-14 days depending on the absorption of the surface
<b>FINAL PERFORMANCES</b>	
Shear adhesion strength according to EN 1324 (N/mm <sup>2</sup> ): <ul style="list-style-type: none"> <li>- initial shear adhesion strength:</li> <li>- shear adhesion strength after heat ageing:</li> </ul> exceeds minimum requirements of BS EN 12004 type D2T <ul style="list-style-type: none"> <li>- after water immersion:</li> <li>- at elevated temperature:</li> </ul>	> 1 > 1 > 0.5 > 1.0
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
Resistance to moisture:	good

## N.B.

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