ProGrip FX

Fibre Reinforced
Semi-rapid Tile Adhesive

ULTRA TILE FIX

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Fibre Reinforced
Semi-rapid Tile Adhesive

- Ideal for use with porcelain, mosaic and natural stone tiles
- Formulated with **Fibre Bond** technology
- Exceptional grab and enhanced body for large format tiles
- Extended pot life for greater fixing time

conforms to
C2 TE S1
EN 12004
classification

20kg

LIFETIME GUARANTEE

3-20mm bed thickness	2.5 hrs pot life	7 hrs set time	20kg : 4.2-4.5L mixing ratio	conforms to **C2 TE S1** EN 12004 classification

Product Selection Guide

Key areas of use:	Suitable tiles:	Suitable surfaces & substrates:
✓ General wall installations	✓ Ceramic	✓ Concrete
✓ General floor installations	✓ Porcelain	✓ Sand/cement screed
✓ Interior installations	✓ Glass	✓ Plywood overlay (15mm min)
✓ Exterior installations	✓ Mosaics	✓ Tile backer boards
✓ Wet rooms	✓ Marble	✓ Cement faced fibre boards
✓ Domestic showers with tray	✓ Travertine	✓ Anhydrite/calcium sulphate/gypsum based screeds
✓ Communal showers	✓ Granite	✓ Tile on Tile*
✓ Swimming pools	✓ Limestone	✓ Firm and stable plaster
✓ Electric matting underfloor heating	✓ Terracotta	✓ Plasterboard
✓ Piped water underfloor heating	✓ Quarry	✓ Sand/cement render
✓ Conservatories	✓ Slate	✓ Concrete brick/block
	✕ Resin Backed	✓ Hard vinyl tiles
	✓ Quartz	✓ Flooring grade asphalt
	✓ Brick Slips	

* Existing ceramic, porcelain and natural stone tiles (overlay) known as "Tile on Tile"

ULTRA TILE FIX

ADHESIVES • GROUTS & SILICONES • TILING ANCILLARIES • LEVELLING COMPOUNDS

TECHNICAL DATASHEET

UltraTileFix ProGrip FX is a single part, semi-rapid setting flexible adhesive for wall and floor tiles. It is specially formulated with enhanced adhesion and flexibility, making it ideal for areas where slight movement or vibration can occur. Classified as S1 in accordance with EN12004 it has the high level of deformation for greater tolerance to movement. UltraTileFix ProGrip FX is a polymer modified adhesive which provides enhanced performance and high bond strength including installations subject to moisture. It is able to take light foot traffic within 3 hours of installation depending upon temperature and substrate.

SURFACE PREPARATION

All wall and floor substrates must be clean, dry, firm and stable, free of dust, dirt, oil and grease. Substrates should be strong enough to support the weight of the adhesive and tiles being fixed (see datasheet for loadings).

For plasterboard and plaster finishes that have been painted and are showing a weak or flaky surface finish then mechanical sanders or hand sanding blocks are generally used to remove the film. However for the likes of floor screed surface contamination, adhesive residues and weak surface laitance or even smooth dense floors such as power floated concrete, these will require a more heavy duty scarifying using specialist flooring equipment to remove the surface of the substrate to ensure the substrate is sound, stable and has a rough open texture. To encourage best adhesion to the substrate it is advisable that prior to applying adhesive that substrates are primed (please see priming section below).

Remember - sanding or mechanical abrasion of any surface will leave powder deposits which require thorough removal by suitable vacuum equipment to provide a clean dust free surface. Failing to remove fine powder deposits and weak surfaces is a common reason for de-bonding of tile adhesive and primer from the substrate. Using a wet sponge to clean down a wall or floor of dust deposits only serves to spread it around, it is therefore advisable to vacuum thoroughly prior to use of wet sponge.

Tile on Tile: It is always preferable to remove existing tiles however fixing new to old is an accepted method as long as the existing tiles are sound, stable, dry, securely bonded and fixed to a background that is capable of taking the additional weight. Ceramic, porcelain and quarry tiles should be lightly abraded to form a mechanical key degreased and ensured thoroughly clean. For existing vinyl floor tiles only hard and "crunchy" vinyl tiles should be considered to be over-tiled. Be aware that some old tiles of this type contained asbestos so should not be abraded. Do not over-tile onto softer vinyl, quartz or composite tiles.

Calcium Sulphate Floor Screeds: It is essential that the floor is fully dry, if in doubt always check the moisture level of the floor is below 75%RH using a hair hygrometer before continuing. This type of floor can also suffer from surface laitance issues creating a weak surface layer and therefore they are highly likely to require specialist mechanical abrasion as indicated above.

Timber/Wooden Floors: All chipboard and T&G flooring should be over-boarded using exterior or class 3 type plywood boards of minimum thickness 15mm or suitable cement backer boards. All over-boarding should be dry and conditioned to the environment in which they are to be used. Plywood over-boards should have backs and edges sealed to prevent ingress of moisture and atmospheric humidity, as should the face to be tiled. A neat coat of UltraTileFix ProPrimer should be used to carry out the sealing process prior to installing the boards. The plywood boards should then be positioned, close butted and firmly screwed (not nailed) through the underlying flooring to joists ensuring a max distance between fixings of 300mm centres or less. If using cement backer board to over-board the timber/wood floor, then it should be of flooring grade and of suitable strength for the application to prevent deflection. It should be 9mm minimum thickness. The backer board should be bonded using a minimum classification of S1 type tile adhesive and the original wooden floor should be thoroughly cleaned and free of any surface coating or wood treatment. It should also be primed using a neat coat of UltraTileFix ProPrimer.

Underfloor Heating (UFH): If UFH is being installed it must be fully commissioned before starting the tiling process to ensure it is in full working order. This includes both electric mat and water pipe systems. Once the UFH has been commissioned it can be set to a low level to provide a max floor temperature of 15°C whilst the tiling and grouting processes are undertaken. It is critical that this temperature is not exceeded as this can force dry the adhesive and grout with the potential of causing cracks in the installation or tiles to de-bond. Maintain this temperature for a minimum period of 7 days while the installation cures and hardens. After this time the UFH can be brought up to the required room temperature slowly at a rate of 5°C per day.

Render: When tiling to new render it must be ensured that the render is a minimum of 4 weeks old and is thoroughly strong, dry, dust and efflorescence free and stable.

PRIMING

UltraTileFix ProPrimer has been specifically developed to be used as a primer for use with cementitious tile adhesives to provide improved sealing and bonding properties for a variety of substrates.

Porous Substrates (includes: plaster, skimmed plasterboard, plasterboard, sand/cement, calcium sulphate screeds, cement backer boards, render and other open textured substrates): Prime with 2 coats of UltraTileFix ProPrimer. The first coat should be diluted 1 part primer to 3 parts clean water (by volume) and allowed to dry for a minimum period of 1 hour. When dry, apply a second coat diluted 1:1 (by volume) and leave for 1 hour to dry before continuing the tiling process.

Non-porous & Low Porous Substrates (includes: cured epoxy DPMs, tile on tile applications, foil faced insulation boards, plywood floor overboarding): We recommend UltraTileFix ProPrimer in a single, neat application.

NB: Please see technical datasheet for UltraTileFix ProPrimer for coverage rate details. If in doubt as to the need for priming please consult UltraTileFix Technical Department.

MIXING

Once the substrate has been prepared, continue with the tiling installation. UltraTileFix ProGrip FX should be added slowly to clean water in a suitable clean mixing tub and mixed thoroughly using a drill/mixer and paddle to give a slump free, easily worked mortar consistency. Once mixed the mortar is immediately ready for use and has a pot life of approximately 2.5 hours at 20°C. Mix only sufficient material to be used within the pot life of the product. Do not remix or rewet/dilute product which has aged and is starting to thicken or set.

Mixing Ratio: 20kg unit requires 4.2L - 4.5L of water.

APPLICATION

Apply the adhesive to the required thickness (limits 3mm – 20mm) in areas up to 1m^2 at a time. For internal walls use a notched trowel to the following notch dimensions to provide solid rib lines:

Mosaic tiles: 3mm x 3mm at 6mm centres

General wall tiles: 5mm x 5mm at 10mm centres

General floor tiles: 8mm x 8mm at 16mm centres

For floors and external applications we advise to use the solid bed method. This involves applying a uniform bed of adhesive to the floor and "buttering" the back of the tile with the same adhesive. When the tiles are bedded with a twisting action, pressing firmly down it ensures 100% contact is made with both the floor and the tile.

When fitting tiles leave spaces between each of the tiles to allow for grouting (approx: walls 1mm – 3mm and floors 2mm – 12mm).

Before the tile adhesive sets clean off the excess adhesive from the face of the tile and grout joints with a clean damp cloth or sponge.

WALL TILING & LOADINGS

Wall types vary considerably but all have the same basic need to be structurally sound, strong, smooth and level. It is essential that the wall to be tiled has sufficient inherent strength to hold the proposed tile and the adhesive being used. The following chart lists maximum national standard loadings for a variety of wall substrates:

LOADINGS	
Gypsum plaster	20kg/m²
Skimmed plasterboard (gypsum)	32kg/m²
Gypsum fibre boards	40kg/m²
Cement tile backer boards	40kg/m²
Glass reinforced cement sheets	50kg/m²

CLEANING

Tools should be thoroughly cleaned with water to remove excess material immediately after use and before adhesive sets.

GROUTING

Leave the installed tiles for a minimum period for at least 7 hours to set hard before grouting and/or walking on the tile. This time may be extended on impervious/non-porous substrates. It is also dependent on temperatures and conditions. Always check and ensure that adhesive has set hard before grouting. UltraTileFix ProGrout Smooth and ProGrout Flexible are available for use in a variety of colours.

TECHNICAL DATA	
Unit Size:	20kg Bags
Colours:	Grey & White
Classification:	EN12004 Class C2TE S1
Bed Thickness:	3mm – 20mm
Grout After*:	7 hours
Coverage:	4.5kg / m² at 3mm Bed Thickness
Pot Life*:	2.5 Hours at 20°C
Set Time*:	7 Hours at 20°C
Application Temperatures:	5°C to 25°C

*Depending on temperatures, substrate and site conditions.

POINTS OF NOTE

The curing period for cement based tile adhesives will be affected by extremes in temperature. High temperature site conditions will increase the speed of cure therefore reducing the pot life and set times. Low temperatures will reduce the speed of cure extending the pot life and set times. It is therefore good practice to consider site conditions and storage of materials as essential factors in planning tiling installations.

All UltraTileFix adhesives are manufactured to meet the performance requirements of BS EN 12004 and the relevant classifications.

UltraTileFix would always advise that tiling installers follow the guidelines for tiling as laid down in BS EN5385. It is essential that expansion joints are built into the design of the tiling installation in order to prevent tension build up. This is a common occurrence which can result in tiles de-bonding.

Please note that this product uses natural aggregates and other materials that may marginally vary in colour. This does not affect the consistency or characteristics of the product.

STORAGE

This product must be stored in unopened bags, clear of the ground in dry conditions. Avoid frost. Ideal storage temperatures are between 5°C and 25°C.

SHELF LIFE

Under the above storage conditions this product has a shelf life of 12 months.

HEALTH & SAFETY

Please ensure that appropriate PPE is used when preparing, mixing and applying products. Always wash hands before consuming food and make sure that materials are kept safely out of reach of children and animals. Please dispose of packaging and waste appropriately. A full Material Safety Data Sheet relating to this product is available from ultratilefix.co.uk.

QUALITY ASSURANCE

All products are manufactured in a plant whose quality management system is certified as being in conformity with BE EN ISO 9001. UltraTileFix products are guaranteed against defective materials and manufacture and will be replaced or money refunded if the goods do not comply with our promotional literature. We cannot however accept responsibility arising from the application or use of our products because we have no direct or continuous control over where and how our products are used. All UltraTileFix products are sold subject to our terms and conditions of sales, copies of which may be obtained upon request.