

TECHNICAL DATA SHEET

Ultimate

Highly Flexible, Polymer Modified Floor & Wall Tile Adhesive

Advantages:

- Highly Flexible fast setting formula
- Ideal for Underfloor heating and difficult substrates
- Walk on and Grout after 3 hours
- Perfect for areas of movement and vibration
- Application to green screeds
- Bonds to metal

Tiles:

- Natural stones
- Limestone
- Quartz
- Mosaics
- Marble
- Granite
- Slate
- Travertine
- Composite

Surfaces:

- Floating floors
- Metal
- Anhydrite screed
- Fibreglass
- Timber

ULTIMATE ADHESIVE IS A HIGH SPECIFICATION, HIGHLY FLEXIBLE RAPID SETTING TILE ADHESIVE FOR FLOORS AND WALLS. ULTIMATE HAS BEEN DEVELOPED FOR SUBSTRATES SUBJECT TO MOVEMENT AND/OR VIBRATION SUCH AS FLOOR BOARDS, FLOATING FLOORS, PLYWOOD, CHIPBOARD, UNDER FLOOR HEATING, GREEN SCREED, METAL, FIBREGLASS, PLASTERBOARD ETC WITHOUT THE NEED TO ADD ADDITIVES. ULTIMATE IS SUITABLE FOR FIXING ALL TYPES AND SIZES OF CERAMIC TILES, MOSAICS, PORCELAIN TILES AND NATURAL STONES. ITS RAPID SETTING CAPABILITY ALLOWS FOR LIGHT FOOT TRAFFIC AFTER 3 HOURS. ULTIMATE IS SUITABLE FOR USE INTERNALLY AND EXTERNALLY AND IS UNAFFECTED BY FROST AFTER SETTING.

PREPARATION:

Before starting, all substrates must be clean, dry and strong enough to support the weight of the tiles and adhesive. Remove all dust, dirt, oil, grease and other contaminants that may affect adhesion.

For information on preparing all types of surface/substrate prior to tiling, please refer to "Substrates" below.

APPLICATION:

Only mix small quantities at a time until you have become accustomed to the fast setting nature of the product. Always mix powder to water and mix to a buttery consistency, never add water after initial mixing, as this will impair the strength of the adhesive. As an approximate guide for powder to water ratio, 20kg of powder requires approximately 5 litres of water. Product that has started to set must be discarded.

On flat, even substrate where dry conditions exist, apply adhesive to substrate as a thin floated coat at a uniform thickness of 3mm – 6mm and then rib using a notched trowel or spreader. Bed tiles into adhesive using a twisting action ensuring full coverage of adhesive between tile and substrate. Where tiling is subject to frequent wet conditions such as in showers, in addition, apply as a solid bed a thin layer of adhesive to the back of the tile before applying to the substrate.

Where substrate conditions do not allow thin bed fixing, adhesive should be applied to substrate as a floated coat 3mm to 6mm in thickness or locally up to 12mm in thickness. Ensure there are no hollow spaces or pockets of air. Ensure the adhesive is still moist and there is full coverage when tiles are pressed into place with a twist action.

Adhesive should also be applied to the back of deep studded tiles to cover the studs. When fixing large format tiles it is highly recommended to skim the back of the tile with a thin 1mm layer of adhesive. This will significantly improve the bond strength.

Clean surplus adhesive from the tiles and joints as soon as possible as set adhesive will prove very difficult to remove later. Clean tools after use with water.



GROUTING:

Do not start grouting until the adhesive has set. This time can vary depending on temperature and site conditions. Impervious surfaces may extend the set time. In ideal conditions grouting can begin after 3 hours. If you are tiling an area of limited movement, or under floor heating you must use a grout with flexibility, our Flexigrout and Grout3000 range are highly recommended.

If you are unsure with our instruction in any way please call our Helpline 01257 269243, we will be happy to assist.

SUBSTRATES:

Concrete/screed: New concrete must be allowed to dry for a minimum of 7 days. Remove any laitance from the surface mechanically and remove all dust ideally by vacuum. Make sure surface is free of loose dirt and dust. Prime the surface with Primeplus diluted 3 parts water to 1 part Primeplus. Very porous substrates will require more than one coat. Priming will increase the set time of the adhesive slightly.

Asphalt/Bitumen: Make sure surface is free of loose dirt and dust. Prime the surface with Primeplus diluted 1 part water to 1 part Primeplus mixed with a little neat cement or adhesive to form a brush on slurry. Setting time of the adhesive will increase.

Ceramic tiles: Remove loose dirt and dust. Prime the surface with Primeplus diluted 1 part water to 1 part Primeplus mixed with a little neat cement or adhesive to form a brush on slurry. The set time of the adhesive will increase slightly.

Plaster/plasterboard: New plaster must be allowed to dry for a minimum of 4 weeks. Make sure surface is free of loose dirt or dust. Prime the surface with Primeplus diluted 3 parts water to 1 part Primeplus, followed by a second neat coat. It is essential that plasterboard is screwed very firmly, if the board is fixed to a timber frame you must allow for slight movement using an adhesive that is formulated for use on a surface of limited movement or vibration.

Chipboard: Chipboard must be a minimum of 18mm and must be screwed (not nailed) every 6 inches/150mm centres to the substrate. Ensure there is enough ventilation beneath substrate and that the chipboard has been fitted competently and will take the weight of tiles and adhesive. Make sure surface is free of loose dirt or dust. Apply an undiluted coat of Primeplus to all exposed edges and joints and then prime the remainder of the surface with Primeplus diluted 2 parts water to 1 part Primeplus. The set time of the adhesive will increase.

Underfloor heating: When tiling onto existing underfloor heating you must switch heating off 1 week prior to tiling to allow substrate to cool sufficiently. When tiling has been completed allow 1 week for full cure of adhesive before switching heating on. Start with a low temperature, gradually increasing temperature over 2 weeks.

When tiling on to a new electric element underfloor heating system, Tilemaster Adhesives recommend that you use "Levelflex" over the top of the element to give a solid expandable and perfect surface on which to apply tiles. Again, allow one week for full cure before switching the heating on, start with a low temperature, increasing daily over 2 weeks.

Plywood: Plywood must be 12mm (minimum), exterior grade, screwed (not nailed) to substrate at 6 inch/150mm centres. Ensure there is sufficient ventilation beneath substrate and that substrate will take the weight of tiles and adhesive. Make sure surface is free of loose dirt and dust. Prime the surface with Primeplus diluted 3 parts water to 1 part Primeplus. The set time of the adhesive will increase.

T/g boarding and floorboards: Existing tongue and groove boards should be screwed down to the joists every 6 inches/150mm to provide a rigid, flat and adequately braced surface. Ensure there is sufficient ventilation beneath the substrate and that the substrate is strong enough to support the weight of the adhesive and tiles being applied. Make sure surface is free of loose dirt or dust. Prime the whole surface with neat Primeplus.

Brick/block: Ensure surface is free of loose dirt and dust. Prime the surface with Primeplus diluted 3 parts water to 1 part Primeplus. The set time of the adhesive will increase.

Anhydrite/Gypsum Screed: Ensure the Anhydrite/Gypsum screed is confirmed dry via consistent moisture readings across the whole surface. Anhydrite screeds must have a moisture reading of less than 75% RH before work can commence. If it is a new screed, allow 1 day per mm for drying. Remove any laitance from the surface mechanically and remove all dust ideally by vacuum.

Anhydrite/Gypsum screeds must be sealed prior to tiling by applying one coat of Flexmaster diluted three parts water to one part Flexmaster and allow to dry, followed by a second neat coat of Flexmaster. The set time of the adhesive may increase.

Power Floated Concrete: Ensure the surface has been allowed 7 days to cure. Power floated concrete can leave a loose top layer and/or laitance once it has cured. Remove the loose top layer and any laitance from the surface mechanically or by acid etching and remove all dust and particles ideally by vacuum. Once all laitance has been removed, prime the surface with Primeplus diluted 3 parts water to 1 part Primeplus.

Vinyl Tiles/Sheet Vinyl: Ensure the existing vinyl tiles/sheet is firm, stable and well adhered to the substrate to which the vinyl was originally applied to. Make sure surface is free of loose dirt and dust. Prime the surface with Primeplus diluted 1 part water to 1 part Primeplus mixed with a little neat cement or adhesive to form a brush on slurry. Setting time of the adhesive will increase.

Metal: Score the surface to provide a key. Remove grease, loose paint dirt and dust. Prime the surface with Primeplus diluted 1 part water to 1 part Primeplus. Set time of adhesive will increase by 100%.

Standard Conformity	Conforms to BS EN 12004 C2 FT S2
Bed Thickness	3mm – 12mm
Coverage	20kg will cover approximately 5 – 6 metre ² at 3mm bed application
Open Time/Working Time	Approximately 30 minutes at 20°C
Before Grouting	Approximately 3 hours depending on temperature and substrate. The set time will be increased by lower temperatures and reduced at higher temperatures. * Tiling onto an impervious substrate with a non porous tile will increase the set time.
Storage	Store unopened, clear of the ground in cool, dry conditions and protect from excessive drafts.
Shelf Life	Stored correctly this product has a shelf life of 6 months
Colours	Grey and White
Pack Sizes	10kg and 20kg
Note	All work must be carried out in accordance with British Standard Code of Practice for floor and wall tiling BS5385

TECHNICAL NOTES:

Ultimate contains a reducing agent to control the level of Chromium VI. When stored correctly the activity of the reducing agent will be maintained and the product when mixed with water will produce no more than (0.0002%) 2ppm Chromium VI of the total weight of the dry cement. Use of the product after the end of the declared shelf life may increase the risk of an allergic reaction.

The information contained on this spec sheet is given voluntarily and in good faith. It is to the best of our knowledge true and accurate; however it may contain information which is inappropriate under certain conditions of use. The company cannot accept responsibility for any loss or damage due to inappropriate use or the possibility of variations of working conditions and of workmanship outside our control.



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