TECHNICAL DATA SHEET

FlexMaster

Flexible Additive & Primer

FLEXMASTER ADDITIVE IS A HIGHLY ADVANCED ACRYLIC BASED ADDITIVE DESIGNED FOR USE WITH ALL TILEMASTER POWDER PRODUCTS.

AS AN ADDITIVE FOR ADHESIVES AND GROUTS, FLEXMASTER HAS BEEN DESIGNED TO INCREASE FLEXIBILITY, DURABILITY AND BOND STRENGTH WHILST REDUCING WATER PENETRATION. FLEXMASTER IS AN ESSENTIAL ADDITIVE FOR NON FLEXIBLE POWDER PRODUCTS WHEN FIXING TO SUBSTRATES SUBJECT TO MOVEMENT, VIBRATION AND/OR EXCESSIVE TEMPERATURE CHANGE. WE RECOMMEND THAT FLEXMASTER IS ADDED TO POWDER PRODUCTS SUBJECT TO PROLONGED OR PERMANENT WATER IMMERSION.

AS A PRIMER, FLEXMASTER IS DESIGNED TO PRIME, STABILISE, SEAL AND PREPARE SUBSTRATES READY FOR THE APPLICATION OF TILEMASTER TILE ADHESIVES AND FLOOR LEVELLING COMPOUNDS. FLEXMASTER STABILISES THE SUBSTRATE, THEREFORE IMPROVING THE ADHESION AND BOND OF CEMENT BASED PRODUCTS. IT ALSO REDUCES THE POROSITY OF A VARIETY OF SUBSTRATES.

ADVANTAGES:

- Water based
- Seals and stabilises the porosity of porous surfaces
- Improves the adhesion of cement based products
- Essential for sealing and stabilising anhydrite screeds prior to application of tile adhesives and floor levellers

SURFACES:

- Concrete
- Asphalt/Bitumen
- Power floated floors
- Plastered walls
- Screeds
- Anhydrite screeds
- Metal
- Fibreglass
- Plywood
- Timber
- Chipboard
- Floating floors

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. The temperature of the sub floor must be above 5ºC when Flexmaster is applied as a primer. Underfloor heating must be switched off, 2 days before application. Ensure in some cases that a damp proof membrane has been incorporated in the sub floor.

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

APPLICATION:

For information on addition rates to Tilemaster Adhesives and Grouts, please refer to the technical data sheet for the relevant adhesive or grout.

Shake well before use. As a primer, apply evenly to the whole surface to be treated, with a paint roller or brush, if you use a roller the coverage will decrease. Wash tools after use with warm water. Allow approximately 1 hour in good conditions to dry fully. Avoid excessive trafficking once drying has been completed.

NOTE: The addition of Flexmaster into Tilemaster powder products will enhance the adhesion. Remove all surplus product before it can set using a damp cloth or sponge as set product will prove very difficult to remove later. The addition of Flexmaster into adhesives and grouts will slightly extend the set time.

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SUBSTRATES:

Concrete/screed:

Ensure new concrete is confirmed dry via consistent moisture readings across the whole surface. Sand/Cement 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.

Prime the surface with Flexmaster diluted 3 parts water to 1 part Flexmaster. Very porous substrates will require more than one coat.

Asphalt:

Make sure surface is free of loose dirt and dust. Prime the surface with Flexmaster diluted 1 part water to 1 part Flexmaster mixed with a little neat cement, sand 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 Flexmaster diluted 1 part water to 1 part Flexmaster mixed with a little neat cement, sand or adhesive to form a brush on slurry. The set time of the adhesive will increase.

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 Flexmaster diluted 3 parts water to 1 part Flexmaster, followed by a second neat coat.

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 sufficient ventilation beneath the substrate and that the chipboard has been fitted competently and will take the weight of the leveller, adhesive and final covering being applied. Make sure surface is free of loose dirt or dust. Exposed edges and joints must be sealed by applying neat Flexmaster. Prime the remainder of the surface with Flexmaster diluted 2 parts water to 1 part Flexmaster and allow to dry. The set time of the adhesive will increase.

Plywood:

Ensure there is sufficient ventilation beneath the substrate and that the substrate is strong enough to support the weight of the leveller, adhesive and the final covering being applied. Make sure surface is free of loose dirt and dust. Prime the surface with Flexmaster diluted 3 parts water to 1 part Flexmaster. 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 leveller, adhesive and the final covering being applied. Make sure surface is free of loose dirt or dust. Prime the whole surface with Flexmaster diluted 1 part water to 1 part Flexmaster.

Brick/block:

Ensure surface is free of loose dirt and dust. Prime the surface with Flexmaster diluted 3 parts water to 1 part Flexmaster. 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.

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. Make sure surface is free of loose dirt and dust. Prime the surface with Flexmaster diluted 1 part water to 1 part Flexmaster mixed with a little neat cement, sand 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 Flexmaster diluted 1 part water to 1 part Flexmaster. Set time of adhesive will increase by 100%.

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 Flexmaster diluted 3 parts water to 1 part Flexmaster.

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Pack Sizes	**1 litre, 2.5 litre & 5 litre**
Coverage as a Primer	**1 litre of neat Flexmaster = 10m²** **1 litre diluted 3 parts water to 1 part Flexmaster = 40m²** **When Flexmaster is applied to non-absorbent surfaces, the coverage will increase by 15%**
Dilution rate as an additive	**1 litre of Flexmaster diluted 3 parts water to 1 part Flexmaster will provide enough liquid for 16kg of powder product.**
	1 litre of Flexmaster diluted 1 part water to 1 part Flexmaster will provide enough liquid for 8kg of powder product
Colour	**White liquid which becomes translucent when dry**
Application Temperature	**Between 5°C and 30°C**
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 12 months**

TECHNICAL NOTES:

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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