

# External Leveller

Fast Setting, External  
Self Levelling Floor Compound

## PROFESSIONAL FLOORING PRODUCTS

- Developed For Use Externally
- Apply From 2mm – 50mm  
In One Application
- Suitable For Use As A Wearing Surface
- Ideal For Use In Swimming Pools
- Foot Traffic After 3 Hours
- Suitable For Use Under Artificial Turf
- Tile After 3 Hours
- Pump-able

CLASS

**CT-C30-F10**

to EN 13813

IDEA FOR  
EXTERNAL  
USE

Suitable For  
Use In  
SWIMMING  
POOLS



# TILEMASTER **EXTERNAL LEVELLER**

## Fast Setting, External Self Levelling Floor Compound

### DESCRIPTION:

External Leveller is a fast setting, fibre reinforced self levelling and smoothing compound formulated especially for smoothing and levelling subfloors externally.

The specially formulated powder of Tilemaster External Leveller gives an extremely strong, fast setting, free flowing mix that can be applied from 2mm to 50mm in one application. External Leveller is ready to receive light foot traffic after 3 hours and can receive floor coverings such as ceramic, porcelain and natural stone tiles after 3 hours.

Tilemaster External Leveller has excellent flow and adhesion properties making it suitable for a wide range of both commercial and domestic applications. Tilemaster External Leveller is suitable for use over a range of substrates including concrete, sand/cement screeds, power floated concrete, ceramic, porcelain, natural stone and terrazzo tiles and epoxy damp proof membranes.

Once mixed, Tilemaster External Leveller will remain workable for 20 – 30 minutes and it will accept light foot traffic after 3 hours in ideal conditions. Ceramic, porcelain and natural stone tiles can be applied after 3 hours.

### SUBSTRATES:

- ✓ Sand/Cement Screed
- ✓ Concrete
- ✗ Plywood Overlay
- ✗ Electric Underfloor Heating
- ✗ Water/Wet System Underfloor Heating
- ✓ Tile Backer Boards
- ✓ Existing Ceramic, Porcelain and Natural Stone Tiles\*
- ✗ Flooring Grade Asphalt & Bitumen
- ✗ Anhydrite Screeds
- ✗ T & G Floorboards
- ✗ Floating Floors
- ✗ Existing Vinyl Tiles
- ✗ Steel/Metal Surfaces
- ✓ Epoxy DPM\*
- ✗ Fibreglass
- ✗ Green Screed



\* Prime with Prime + Grip

### PREPARATION:

Before starting, all substrates must be clean, dry and strong enough to support the weight of the leveller and the final floor covering being applied. Remove all dust, dirt, oil, grease and other contaminants that may affect adhesion. Remove any loose or flaking layers. Laitance should be removed from concrete surfaces. Where traces of tile adhesive residue remain, these must be checked to ensure that they are strong, sound and well adhered to the substrate in order to receive a levelling compound.

If External Leveller is used in an installation that will be submerged, such as swimming pools, the product must be allowed to cure for 28 days before being submerged in water to allow for full curing times.

All substrates require priming prior to the application of Tilemaster External Leveller. Priming the substrate will minimize the risk of pinholes forming, allow for the best flow properties and also prolong the working time of the product whilst maintaining a 'wet edge' for a longer period. For recommended priming dilution rates please refer to Page 3 of this data sheet.

### MIXING AND APPLICATION:

Always mix by adding powder to water. Tilemaster External Leveller is mixed with a water content of 4.8 – 5.0 litres of water per 25kg of Tilemaster External Leveller. Pour the pre-measured clean water into a suitable clean mixing vessel. Add the powder component slowly whilst mixing with an electric paddle and continue to mix for a further 2 minutes until a smooth and lump free consistency is obtained. Once mixed do not add additional water. Exceeding 5.0 litres of water per 25kg will result in water bleed and therefore extended drying times and a weakened mix.

**N.B.** Once mixed, Tilemaster External Leveller will remain workable in the bucket for 20 - 30 minutes at 20°C.

Pour a small quantity onto the prepared surface and trowel down lightly to a depth between 2mm and 50mm. The use of a spiked roller is recommended immediately in thin applications in order to remove entrapped air and smooth out flow lines. Setting times will depend on atmospheric conditions/temperatures, it will be slowed by lower temperatures and accelerated by higher temperatures.

If a depth greater than 50mm is required, allow the first application to dry and prime the surface with Tilemaster Primeplus at a 3:1 ratio before applying a subsequent coat.

Alternatively, the product can be mixed with bulking aggregates to provide a greater application depth and / or to enhance the products coverage rate. For further information on the correct aggregates to be used and for ratios of bulking aggregate to be added to the mix, please call the Tilemaster Technical Helpline on 01772 456831.

Clean tools immediately after use with clean water.

Tilemaster External Leveller is ideal for pump application. Mix in accordance with the pump manufacturer's instructions and ensure that regular flow checks are carried out. Ensure the water content is correct and that there is no surface separation.

### SETTING AND COVERING:

In ideal conditions, Tilemaster External Leveller will accept light foot traffic after 3 hours. At this point, Tilemaster External Leveller is ready to receive floor coverings such as ceramic, porcelain and natural stone tiles. Thicker applications may require a longer time to dry prior to applying floor coverings. If there has been moisture ingress from ambient condition, the drying time may be restricted. The critical moisture content for the flooring in question must be observed.

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### **SUBSTRATE PREPARATION GUIDE:**

**Concrete:** New concrete must be allowed a minimum of 6 weeks drying time. As an approximate guide for drying times, allow 1 day per mm up to an overall depth of 40mm and 2 days per mm for anything above 40mm. Ensure new concrete is confirmed dry via consistent moisture readings across the whole surface. Concrete screeds must have a reading of less than 75% relative humidity (RH) before work can commence. Remove any laitance from the surface mechanically and ensure that mould oil, curing agents and any other contaminants are removed. Remove all dust and dirt ideally by vacuum. Prime surface with Tilemaster Primeplus diluted at a 3:1 ratio (3 parts water to 1 part Tilemaster Primeplus) and allow to dry.

**Sand/Cement Screed:** New sand/cement screed must be left for a minimum of 4 weeks to dry sufficiently. Ensure new sand/cement screed is confirmed dry via consistent moisture readings across the whole surface. Sand/cement screeds must have a reading of less than 75% relative humidity (RH) before work can commence. Remove any laitance from the surface mechanically and ensure that mould oil, curing agents and any other contaminants are removed. Remove all dust and dirt ideally by vacuum. Prime surface with Tilemaster Primeplus diluted at a 3:1 ratio (3 parts water to 1 part Tilemaster Primeplus) and allow to dry.

**Power Floated Concrete:** Ensure the surface has been allowed 7 days to cure. Ensure new concrete is confirmed dry via consistent moisture readings across the whole surface. Concrete screeds must have a reading of less than 75% relative humidity (RH) before work can commence. Power floated concrete can leave a tight surface finish or laitance once it has cured. Remove the top layer and any laitance from the surface mechanically or by acid etching and remove all dust and particles ideally by vacuum. Prime the surface with Tilemaster Primeplus diluted 3 parts water to 1 part Tilemaster Primeplus and allow to dry.

**Existing Ceramic, Porcelain & Natural Stone Tiles:** Prior to applying Tilemaster External Leveller ensure the surface is dry and free of any contaminants, loose dust or dirt. Existing tiles that have been previously treated with sealer must be sufficiently cleaned in order to remove any surface treatments by de-greasing. Prime the surface with one coat of Tilemaster Prime+ Grip and allow to dry.

**Tile Backer Board:** Prior to applying Tilemaster External Leveller ensure the surface is dry and free of any contaminants, loose dust or dirt. Prime surface with Tilemaster Primeplus diluted at a 3:1 ratio (3 parts water to 1 part Tilemaster Primeplus) and allow to dry.

**Epoxy Damp Proof Membrane:** Ensure the surface is dry and free of any contaminants, loose dust or dirt. Prime the surface with one coat of Tilemaster Prime + Grip and allow to dry.

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# TILEMASTER **EXTERNAL LEVELLER**

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Screed classification	CT-C30-F10 to EN13813;2002
Working time @ 20°C	20 – 30 minutes
Time to foot traffic @ 20°C	3 hours
Application thickness	2mm – 50mm
Compressive strength N/mm <sup>2</sup> (BS EN 13892)	1 day > 14.0 7 day > 22.0 28 day > 30.0
Flexural strength N/mm <sup>2</sup> (BS EN 13892-2)	1 day > 4.0 7 day > 6.0 28 day > 10.0
Coverage	25kg will cover 5m <sup>2</sup> at 3mm thickness
Flow properties using 30mm x 50mm flow ring	135mm – 145mm
Minimum application temperature	5°C
Shelf life	Stored correctly this product has a shelf life of 6 months
Colour	Grey
Pack size	25kg
Note	All work must be carried out in accordance with British Standard Code of Practice.

### HEALTH AND SAFETY

Tilemaster External Leveller contains cement. Irritant to respiratory system. Risk of serious damage to eyes, therefore avoid contact with eyes and prolonged contact with skin. Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Wear suitable gloves (e.g. cotton gloves soaked in nitrile) and eye/face protection. If swallowed, seek medical advice immediately and show this container or label. Keep out of reach of children. Low in chromates.

For further information, refer to the Material Safety Data Sheet.

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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<b>EN 13813:2002</b> <b>CT-C30-F10</b> Fast drying cement based self leveling compound for external locations	
Reaction to fire	NPD
Release of corrosive substances	CT
Water permeability	NPD
Water vapour permeability	NPD
Compressive strength	C30
Flexural strength	F10
Wear resistance	NPD
Sound insulation	NPD
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD

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