

# FineFlow 3000

Exceptional Flowing, Heavy Duty,  
Single Component Smoothing  
And Levelling Compound

## PROFESSIONAL FLOORING PRODUCTS

-  Apply from featheredge - 20mm
-  Excellent flow and self-levelling properties
-  Ideal for use above underfloor heating systems
-  Fix tiles after 3 hours and resilient flooring after 24 hours
-  Can be used as a wearing surface
-  Simply mix with water
-  Protein free

SUPERB  
SURFACE  
FINISH

APPLY FROM  
FEATHEREDGE  
to 20mm

Walk On After  
3 Hours  
Tile After 3 Hours  
LVT After 24 Hours



# TILEMASTER **FineFlow 3000**

## Exceptional Flowing, Heavy Duty, Single Component Smoothing And Levelling Compound

### DESCRIPTION:

Tilemaster FineFlow 3000 is a fast setting, free flowing, single component smoothing and levelling compound. The specially formulated powder gives the product exceptional flow and smoothing properties, and is designed to give an excellent surface finish. Tilemaster FineFlow 3000 can be applied from featheredge - 20mm in one application and can receive foot traffic after 3 hours.

Tilemaster FineFlow 3000 is the ideal choice for levelling solid substrates. It has excellent flow and adhesion properties making it suitable for a wide range of both commercial and domestic applications. Tilemaster FineFlow 3000 is suitable for use over a wide range of substrates including sand & cement screeds, concrete, flooring grade asphalt, ceramic, porcelain and natural stone tiles and epoxy damp proof membranes.

Tilemaster FineFlow 3000 is also ideal for encapsulating electric underfloor heating elements on solid substrates and for use over underfloor heated screeds.

Tilemaster FineFlow 3000 is fast setting, meaning ceramic, porcelain and natural stone tiles can be installed after as little as 3 hours, and resilient floor coverings can be installed after 24 hours.

### AREAS OF USE:

- ✓ Floors
- ✓ Internal
- ✓ Dry Areas
- ✓ Underfloor Heating

### SUBSTRATES:

*Specific substrate preparation can be found in the Substrate Preparation Guide section and these instructions must be followed before installation commences*

- ✓ Sand & Cement Screeds
- ✓ Flooring Grade Asphalt
- ✓ Existing Ceramic, Porcelain & Natural Stone Tiles
- ✓ Epoxy DPM
- ✓ Concrete
- ✓ Calcium Sulphate Screeds

### PREPARATION:

Before starting, all substrates must be clean, dry and strong enough to support the weight of the compound and the final floor covering being applied. Remove all dust, dirt, oil, grease and other contaminants that may affect adhesion.

When installing moisture sensitive floor coverings, the concrete or sand:cement screed should be confirmed dry by consistent moisture readings; <75% relative humidity (RH) or <0.5% residual moisture when tested in accordance with BS 5385 and BS 8203. Where a structural damp proof membrane is not present or where rising damp and/or residual moisture results in moisture readings up to 98% RH, Tilemaster FAST One Coat DPM must be applied before the application of Tilemaster FineFlow 3000. Surface laitance must be removed from concrete and sand:cement screed surfaces prior to application.

Substrates require priming prior to the application of Tilemaster FineFlow 3000. Priming the substrate will minimise the risk of pinholes forming, allow for the best flow properties and will also prolong the working time of the product. Please refer to the detailed substrate priming information on page 3 of this TDS.

### MIXING AND APPLICATION:

A 20kg bag of Tilemaster FineFlow 3000 requires 4.4 – 4.8 litres of water.

Add the pre-measured water to a clean bucket and slowly add the powder whilst mixing with an electric paddle. Mix until a smooth and lump free consistency is obtained. Do not add further water once mixed. Exceeding 4.8 litres of water per 20kg will result in water bleed, extended drying times, a weakened mix and poor surface finish.

**N.B: Once mixed, Tilemaster FineFlow 3000 has a pot life of approximately 20 minutes at 23°C.**

Pour the compound onto the prepared surface and trowel to the required depth of between featheredge and 20mm. The use of a spiked roller is recommended immediately in order to remove entrapped air and smooth out flow lines. The setting time will then depend on atmospheric conditions/temperatures - it will be slowed by lower temperatures and accelerated by higher temperatures.

Clean tools immediately after use with clean water.

### PUMP APPLICATIONS:

Tilemaster FineFlow 3000 is ideal for pump applications. 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. Test samples of the product must be conducted to ensure the pump lines are able to send product through before the product starts to set.

### SETTING AND COVERING:

In ideal conditions, Tilemaster FineFlow 3000 will be set to walk on after 3 hours. Tilemaster FineFlow 3000 must be left to dry before applying the final surface flooring. This is typically after 3 hours for ceramic, porcelain and natural stone tiles and after 24 hours for resilient flooring. Thicker applications may require a longer time to dry prior to applying floor coverings. If there is no airflow within site conditions, the drying time may be restricted.

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### **SUBSTRATE PREPARATION GUIDE:**

Preparation of all substrates is crucial to the success and longevity of all installations. All substrates, as stated in BS 5385 and BS 8203, must be rigid, flat, clean, dry and sound and be free of any contaminants. Anything that could compromise adhesion to the substrate, such as dust, dirt, oil, grease, laitance, sealers, waxes and curing agents will need to be mechanically removed. Ensure that all substrates and backgrounds are strong enough to carry the weight of the compound as well as all finished floor coverings and fixing materials.

### Floors:

**Underfloor Heated Screeds:** New sand & cement screeds must be allowed to dry for a minimum of 4 weeks. After this drying out period, the underfloor heating system should be turned on at its lowest temperature setting and the screed should be heated slowly at a maximum rate of 5°C per day up to the maximum operating water temperature, as recommended by the heating manufacturer, and maintained at that level for a further 3 days before being allowed to cool to room temperature. To commission the underfloor heating properly the flow temperature should not be limited by room thermostats. The room thermostats should be disconnected and the temperatures controlled manually via the manifold mixing valve, or at the boiler.

When applying Tilemaster FineFlow 3000 onto an existing, fully cured and dry heated screed, where the underfloor heating has been previously commissioned and used, you must switch the heating off 48 hours prior to application to allow the substrate to cool sufficiently.

Ensure that the surface is clean, dry and free of any contaminants. Prime the surface with Tilemaster Primeplus, diluted 3 parts water to 1 part Tilemaster Primeplus, and allow to dry. If the substrate is overly porous then further coats of diluted Primeplus may be required.

Once the finished floor covering is installed, the heating system should not be run for at least ten days in order to allow the fixing materials to cure/dry thoroughly. When turning on the heating, start at the lowest temperature possible and then gradually increase the temperature of the system, on the thermostat, by no more than 1°C per day until the required temperature is achieved.

**Underfloor Heating (Electric):** When tiling, or fitting a resilient floor covering onto a new electric underfloor system, the cables should be encapsulated into Tilemaster FineFlow 3000. Ensure that the layer of Tilemaster FineFlow 3000 has the required thickness to meet the requirements of the specific floor covering being installed.

**N.B.** When installing resilient flooring above an electric underfloor heating element, Tilemaster FineFlow 3000 must be applied to allow for 10mm of Tilemaster FineFlow 3000 above the element.

Once the floor tiling is installed, the heating system should not be run for at least ten days in order to allow the fixing materials to cure/dry thoroughly. When turning on the heating, start at the lowest temperature possible and then gradually increase the temperature of the system, on the thermostat, by no more than 1°C per day until the required temperature is achieved.

**Tile Backer Board Overlay:** Tile backer boards must be fixed following the manufacturers' instructions and be of the required thickness and material for the specific application. Ensure that the boards are securely fixed and adequately braced to provide a rigid surface. Prime the surface with one coat of Tilemaster Primeplus, diluted 3 parts water to 1 part Tilemaster Primeplus, and allow to dry.

**Sand & Cement Screeds:** New sand & cement screeds must be allowed to dry for a minimum of 4 weeks. Ensure that the surface is clean, dry and free of any contaminants. Prime the surface with Tilemaster Primeplus, diluted 3 parts water to 1 part Tilemaster Primeplus, and allow to dry. If the substrate is overly porous then further coats of diluted Primeplus may be required.

**Existing Ceramic, Porcelain & Natural Stone Tiles:** Ensure that the substrate is rigid and can take the additional weight of the new floor covering and preparation and fixing materials. The existing tiles must be sound, in good condition and be firmly bonded to the original substrate. Remove any loose or damaged tiles and make good. Any surface sealers must be removed along with any other contaminants that could affect adhesion. When the tiles are confirmed clean and dry prime the surface with one coat of Tilemaster Prime+ Grip and allow to dry.

**Epoxy DPM:** The Epoxy DPM must be a suitable flooring grade. The DPM must be sound, in good condition, hard and well adhered to the substrate. Ensure the surface is clean, dry and free of any contaminants. Prime the surface with one coat of Tilemaster Prime+ Grip and allow to dry.

**Concrete:** New concrete must be allowed to cure before having a minimum of 6 weeks continuous air drying. Mechanically remove any laitance and other surface contaminants and remove the dust by vacuum. Prime the surface with one coat of Tilemaster Primeplus, diluted 3 parts water to 1 part Tilemaster Primeplus, and allow to dry. If the substrate is overly porous then further coats of diluted Primeplus may be required.

**Power floated concrete will require the surface to be mechanically abraded, to open up the pores and to remove any surface contaminants, before priming.**

**Calcium Sulphate Screeds:** Calcium sulphate screeds dry with laitance on the surface. The laitance must be completely removed by mechanically sanding and/or abrading the surface of the screed. After 7 days the underfloor heating (if the screed is heated) can be commissioned. Once commissioned and allowed to cool the screed can then be moisture tested. Calcium sulphate screeds must be confirmed dry via consistent moisture readings across the whole floor.

Tilemaster FineFlow 3000 is suitable for use on calcium sulphate screeds providing the residual moisture content of the screed is below 0.5%, or the relative humidity is 75% or below. Ensure that the surface is clean, dry and free of any contaminants. Prime the surface with Tilemaster Primeplus, diluted 3 parts water to 1 part Tilemaster Primeplus, and allow to dry. If the substrate is overly porous then further coats of diluted Primeplus may be required. When the first coat of Tilemaster Primeplus is touch dry, apply a neat coat of Tilemaster Primeplus to the surface.

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|---|---|
| Screed classification                                 | CT-C30-F7 to BS EN 13813; 2002  |
| Pot Life @ 23°C                                       | 20 – 30 minutes   |
| Time to foot traffic @ 23°C                           | 3 hours   |
| Application thickness                                 | Featheredge – 20mm  |
| Compressive strength<br>N/mm <sup>2</sup> (EN13892-2) | 1 day > 15.0<br>7 day > 20.0<br>28 day > 30.0   |
| Flexural strength<br>N/mm <sup>2</sup> (EN13892-2)    | 1 day > 3.0<br>7 day > 5.0<br>28 day > 7.0  |
| Coverage  | 20kg will cover 4.2m <sup>2</sup> at 3mm thickness                                    |
| Flow properties using<br>30mm x 50mm flow ring        | 135mm – 145mm   |
| Minimum application<br>temperature                    | 5°C   |
| Shelf life  | Stored correctly the powder has a shelf<br>life of 6 months                           |
| Colour  | Grey  |
| Pack size   | 20kg  |
| Note  | All work must be carried out in accordance<br>with British Standard Code of Practice. |

### HEALTH AND SAFETY

Tilemaster FineFlow 3000 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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|---|-----|
| <br><b>14</b><br>DoP 018                           |     |
| Tilemaster Adhesives Ltd<br>Kerakoll Group<br>Tomlinson Road<br>Leyland   PR25 2DY<br>United Kingdom                                  |     |
| <b>EN 13813:2002</b><br><b>CT-C30-F7</b><br>Fast drying cement<br>based self – levelling<br>compound for use in<br>interior locations |     |
| Reaction to fire  | NPD |
| Release of corrosive<br>substances  | CT  |
| Water permeability  | NPD |
| Water vapour<br>permeability  | NPD |
| Compressive strength  | C30 |
| Flexural strength   | F7  |
| Wear resistance   | NPD |
| Sound insulation  | NPD |
| Sound absorption  | NPD |
| Thermal resistance  | NPD |
| Chemical resistance   | NPD |