tilemaster adhesives

TECHNICAL DATA SHEET

Pro Flow

Rapid Setting, High Performance, Flexible, Double Component Smoothing Compound

PROFESSIONAL FLOORING PRODUCTS

- Apply from 2mm - 12mm
- Rapid setting
- Moisture tolerant - can be used below a DPM
- Excellent flow and self-levelling properties
- Excellent adhesion properties without priming most substrates
- Apply directly to a DPM within 24 hours without priming
- Suitable for use over old adhesive residues including bitumen
- Install resilient floor coverings after 4 hours and ceramic tiles after 3 hours
- Protein free
- Low odour

Excellent Adhesion Without Priming Most Substrates

MOISTURE TOLERANT

Walk On After 90 Minutes

Tile After 3 Hours

LVT After 4 Hours

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TILEMASTER **PRO FLOW**

Rapid Setting, High Performance, Flexible, Double Component Smoothing Compound

DESCRIPTION:

Tilemaster Pro Flow is a rapid setting, high performance, flexible, double component smoothing and levelling floor compound. The specially formulated powder component is mixed with a pre-gauged, protein free polymer liquid, giving a free-flowing, shrinkage compensated floor compound that can be applied from depths of 2mm – 12mm in one application.

Tilemaster Pro Flow has excellent flow and adhesion properties, making it suitable for a wide range of both commercial and domestic applications. These unique properties ensure that Tilemaster Pro Flow can be used with confidence without the need to prime the large majority of substrates. Tilemaster Pro Flow is suitable for use over a wide range of substrates and being moisture tolerant it can be used to smooth subfloors prior to the installation of a Tilemaster FAST One Coat DPM. Tilemaster Pro Flow is ideal for encapsulating electric underfloor heating elements and for use over underfloor heated screeds.

Once mixed, Tilemaster Pro Flow will remain workable for 20 - 25 minutes and it will accept light foot traffic after 90 minutes in ideal conditions. Resilient floor coverings can be installed after 4 hours and ceramic tiles can be applied after 3 hours.

PREPARATION:

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.

When installing moisture sensitive floor coverings, the concrete or sand & cement screed should be confirmed dry by consistent moisture readings; <75% relative humidity (RH) when tested in accordance with 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 or after the application of Tilemaster Pro Flow. Surface laitance must be removed from concrete and sand & cement screed surfaces prior to application.

PRIMING:

Most substrates do not require priming prior to the application of Tilemaster Pro Flow. Priming the substrate however will minimise the risk of pinholes forming, allow for the best flow properties and also prolong the working time of the product. Priming the substrate prior to application whilst not necessary, is considered “best practice”. Where priming is necessary, prime the substrate using Tilemaster Primeplus or Prime+ Grip by following the instructions below.

Porous Surfaces: Suitably prepared and sufficiently dry substrates, prime with Tilemaster Primeplus diluted 1 part Primeplus to 3 parts water. If the substrate is overly porous then further coats of diluted primer may be required.

Non-Porous Surfaces: Substrates such as as Tilemaster FAST One Coat DPM, flooring grade asphalt & bitumen, steel and existing vinyl, ceramic, porcelain and natural stone tiles should be primed with one coat of Tilemaster Prime+ Grip.

Primers should be used in accordance with instructions printed on the bottle and must be allowed to dry before applying Tilemaster Pro Flow.

MIXING AND APPLICATION:

Shake the pre-gauged bottle of liquid polymer and pour into a suitable clean mixing bucket. 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 further polymer liquid or water.

N.B: Once mixed, Tilemaster Pro Flow will remain workable in the bucket for 20 - 25 minutes at 23°C. Due to the rapid setting properties of Tilemaster Pro Flow, it is important to apply the mixed product without delay.

Pour the compound onto the prepared surface and trowel down lightly to a depth between 2mm and 12mm. 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.

If the substrate is impervious or if it contains old adhesive residues, Tilemaster Pro Flow should be applied to a minimum overall thickness of 3mm. This is to ensure the uniform drying of the adhesives that are subsequently applied to the Tilemaster Pro Flow, whilst also ensuring that there is no interaction between the new adhesive and old adhesive residues.

SETTING AND COVERING:

In ideal conditions, Tilemaster Pro Flow will be set to walk on after 90 minutes. Tilemaster Pro Flow must be left to dry before applying the final surface flooring. This is typically after 3 hours when fitting ceramic, porcelain or natural stone tiles and typically 4 hours when fitting PVC, LVT, carpet & textile and sheet vinyl. 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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Screed classification	CT-C16-F7 to EN13813:2002
Working time @ 23°C	20 – 25 minutes
Time to foot traffic @ 23°C	90 minutes
Application thickness	2mm – 12mm
Compressive strength N/mm² (BS EN 13892-2)	1 day > 9.0 7 day > 12.0 28 day > 16.0
Flexural strength N/mm² (BS EN 13892-2)	1 day > 3.0 7 day > 4.0 28 day > 7.0
Coverage	A 20kg bag and 5.0Ltr liquid unit will cover 5.0m² at 3mm thickness
Flow properties using 30mm x 50mm flow ring	135mm – 150mm
Minimum application temperature	5°C
Shelf life	Stored correctly the powder component has a shelf life of 6 months and 12 months for the latex liquid
Colour	Powder – Grey Liquid - White
Pack size	Bag - 20kg Liquid – 5 Litres
Note	All work must be carried out in accordance with British Standard Code of Practice.

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DoP 037

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EN 13813:2002

CT-C16-F7

Cementitious screed material for use internally in buildings

Reaction to fire	NPD
Release of corrosive substances	CT
Water permeability	NPD
Water vapour permeability	NPD
Compressive strength	C16
Flexural strength	F7
Wear resistance	NPD
Sound insulation	NPD
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD

HEALTH AND SAFETY

Tilemaster Pro Flow contains cement. Contact with moisture or gauging water sets off an alkaline reaction which may cause skin irritation and/or caustic burns to mucous membranes (e.g. eyes). 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 Technical Data 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.

NOTE: This product is not designed nor potentially suitable for the repair or making good of newly installed screeds that have been installed being knowingly faulty, out of manufacturers specification or with defects outside of the manufacturers or installers usual standards and specification.

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