

FLEXILEVEL

Rapid Setting, Fibre Reinforced, Flexible Self-Levelling Floor Compound.

FLEXILEVEL is a free flowing, fibre reinforced, protein free, shrinkage compensated, cement based self-levelling compound designed for smoothing and levelling sub-floors prior to the installation of floor coverings. FLEXILEVEL is suitable for application to a large variety of substrates, including; sand/cement screeds, concrete, plywood overlay, chipboard overlay, timber boards, underfloor heating systems, flooring grade asphalt/bitumen, existing tiles and anhydrite screeds. FLEXILEVEL can be applied from depths of 2 – 50 mm in one application and it is suitable for timber substrates when a minimum of 4 mm is applied. FLEXILEVEL is fast setting and at 20°C is ready to receive ceramic, porcelain and natural stone tiles after 3 hours and impervious floor coverings such as linoleum and vinyl after 24 hours.

ADVANTAGES:

- Apply from 2 – 50 mm in one pour
- Apply to plywood, chipboard and timber boards
 - Minimum depth on timber substrates is 4 mm
- Ideal for underfloor heating systems
- Fibre reinforced and flexible
- Rapid setting, tile after 3 hours
- Shrinkage compensated
- Single part, no additives required
- Protein free
- High durability
- Pumpable

USES:

For smoothing and levelling subfloors prior to the installation of floor coverings. The high polymer and fibre reinforced formulation makes FLEXILEVEL the ideal choice when preparing a floor surface prior to the installation of a new floor covering. FLEXILEVEL is suitable for use on all common substrates, including sand/cement screeds, concrete, sound flooring grade asphalt/bitumen, anhydrite screed, ceramic, quarry and natural stone tiles, minimal adhesive residues, underfloor heating systems, plywood overlay, chipboard overlay and timber boards.

FLEXILEVEL is ideal when preparing a substrate to lay underfloor heating, ceramic, porcelain and natural stone tiles, laminate, vinyl, parquet, cork, wooden block, carpet or painting as the final treatment.

SURFACE PREPARATION:

Before starting, all substrates must be clean, dry and strong enough to support the weight of the leveller, adhesive and the final covering being applied. Remove all dust, dirt, oil, grease and other contaminants that may affect adhesion. Where traces of adhesive remain, these must be strong, sound and well adhered to the surface. Sub-floors directly to earth must have a damp-proof membrane.

For information on preparing different types of surface/substrate prior to applying FLEXILEVEL, please refer to "Substrates" below.

APPLICATION AREAS & SURFACES:

- Plywood & Chipboard Overlay
- Underfloor Heating Systems
- Timber Substrates
- Existing Tiles
- Concrete & Screed
- Flooring Grade Asphalt/bitumen



TECHNICAL DATA SHEET

RECOMMENDED TOOLS :

- Suitable steel trowel
- Spiked roller
- Slow speed drill and paddle.

MIXING:

Mix by adding powder to water, approximately 5.4 – 6.0 litres of water to 25kg of FLEXILEVEL. We suggest starting at 5.4 litres of water which can then be increased to a maximum of 6.0 litres if necessary. Do not exceed 6.0 litres of water. **Exceeding 6.0 litres of water per 25kg bag will result in bleed and segregation, giving a weaker mix, extended drying times and an unstable laitance on the surface of the resulting compound.**

Mix ideally with a slow speed electric drill and paddle until a lump-free, flowable compound is obtained. When mixed, allow to stand for 2 minutes and stir again before application. Use within 15 – 20 minutes of first mixing.

APPLICATION:

Pour a small quantity onto the prepared surface and trowel down lightly with a steel trowel, the use of a spiked roller will help remove entrapped air and smooth out flow lines. FLEXILEVEL can start to lose workability after approximately 20 - 30 minutes, it is advised to pour and apply the product soon after mixing, the product will self smooth. FLEXILEVEL will start to cure 1 – 2 hours after application. The repeated application of FLEXILEVEL is possible after drying, usually 3 – 4 hours. If you wish to build to a depth greater than 50mm, allow to dry and prime between applications.

Please note – Depending on the porosity of the substrate and the ambient conditions, once applied, the drying process can begin after 15 – 20 minutes. You will need to be aware of this fact if applying FLEXILEVEL by hand over a large area.

Tools must be thoroughly cleaned with water immediately after use.

FLEXILEVEL MUST BE LEFT TO DRY BEFORE APPLYING THE FINAL DECORATIVE SURFACE FLOORING. This is typically after 3 hours for tiles and 24 hours for soft flooring, however, it can vary and can be faster depending on the choice of surface flooring. The critical moisture content for the flooring in question must be observed.

Please call our helpline on 01772 456831. We will be happy to give technical assistance.

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.

It is necessary to prime concrete and sand/cement screeds to maintain the flow life and prevent air bubbles rising to the surface. Prime with Primeplus diluted 3 parts water to 1 part Primeplus. **Very porous substrates will require more than one coat.**

Flooring Grade Asphalt/Bitumen & Existing Tiles: Make sure surface is dry and free of loose dirt, dust and contaminants. Prime the surface with Primeplus diluted 1 part water to 1 part Primeplus mixed with approximately 30% (by weight) of FLEXILEVEL to form a brush on slurry.

Plywood: Plywood overlay must be a minimum of 12 mm, exterior grade and screwed (not nailed) to the substrate at 6 inch/150 mm centres. A minimum of 18 mm, exterior grade, tongue and grooved plywood must be used when using as floorboards over joists. You must ensure that joins in boards are supported by joists. Ensure there is sufficient ventilation beneath 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. Exposed edges and joints must be primed with neat Primeplus. Prime the remainder of the substrate with Primeplus diluted 3 parts water to 1 part Primeplus.

Underfloor Heating Systems: When applying FLEXILEVEL onto existing underfloor heating you must switch the heating off 48 hours prior to application to allow the substrate to cool sufficiently. Once FLEXILEVEL has been applied, allow 1 week before switching heating on. Start with a low temperature and increase the temperature gradually on a daily basis by no more than 2°C per day.

Chipboard Overlay: Chipboard overlay 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 substrate and that 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. Exposed edges and joints must be sealed by applying neat Primeplus. Prime the remainder of the surface with Primeplus diluted 2 parts water to 1 part Primeplus and allow to dry.

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. Tongue and groove sheets must be a minimum of 22 mm in thickness. You must ensure that joins in boards are supported by joists. 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 neat Primeplus.

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 applying FLEXILEVEL by applying one coat of Primeplus diluted three parts water to one part Primeplus and allow to dry, followed by a second neat coat of Primeplus.

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.

TECHNICAL DATA SHEET

LIMITATIONS:

FLEXILEVEL is suitable for use externally under certain conditions. Please contact technical assistance on 01772 456831 to discuss this further. Do not use in areas subject to permanent water immersion.

Screed classification	CT-C25-F6
Working time @ 20°C	20 – 30 minutes
Time to foot traffic @ 20°C	2 – 3 hours
Application Thickness	2 – 50 mm
Compressive Strength N/mm² (BS EN13892-2)	
1 Day	> 15.0
7 Day	> 20.0
28 Day	> 25.0
Flexural Strength N/mm² (BS EN13892-2)	
28 Day	> 6.0

Flow properties using 30mm x 50mm flow ring	130 – 150 mm
Coverage	25 kg pack will cover 5.25 m² at 3mm thickness
Shelf Life	Stored correctly this product has a shelf life of 6 months
Colours	Grey
Pack Sizes	25kg
Note	Do not use below 5°C. Do not use in areas subject to permanent water immersion.

HEALTH AND SAFETY

This product contains Portland cement. When used and stored as instructed the product will contain no more than 0.0002% (2ppm) of water soluble chromium of the total dry weight of the cement components. Use of this product after the advised storage time may increase the risk of allergic reaction.

The information above 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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