

LevelFlex

Rapid Setting Fibre Reinforced Flexible Self Levelling Floor Compound

LEVELFLEX IS A FREE FLOWING, FAST SETTING, FIBRE REINFORCED, PROTEIN FREE, SHRINKAGE COMPENSATED CEMENT BASED FORMULATION, DESIGNED FOR SMOOTHING AND LEVELLING SUB-FLOORS PRIOR TO THE INSTALLATION OF FLOORCOVERINGS. LEVELFLEX CAN BE APPLIED FROM DEPTHS OF FEATHEREDGE TO 50MM IN ONE APPLICATION AND IS SUITABLE FOR USE ON ALL COMMON SUBSTRATES INCLUDING UNDER FLOOR HEATING AND PLYWOOD OVERLAY. LEVELFLEX IS FAST SETTING AND IS READY TO BE TILED AFTER 3 HOURS AT 20°C. LEVELFLEX IS READY TO RECEIVE FLOORCOVERINGS SUCH AS VINYL, LINOLEUM, CARPET AND RESIN AFTER 24 HOURS AT 20°C.

ADVANTAGES:

- Apply from featheredge to 50mm in one pour
- Single part, no additives required
- Ideal for underfloor heating and plywood
- Light foot traffic after 3 hours
- Fibre reinforced and flexible
- Protein free
- Shrinkage compensated
- Pumpable
- High durability

USES:

For smoothing screeds and a variety of floor surfaces. The high polymer and fibre formulation makes LEVELFLEX the ideal choice for preparing a surface prior to the installation of a new floor covering. LEVELFLEX is suitable for use on all common substrates including; sand/cement screeds, concrete, sound asphalt, anhydrite screed, ceramic, quarry and natural stones, minimal adhesive residues, under floor heating, plywood and timber boards. Due to the strength of formulation, LEVELFLEX can be applied to a depth of 50mm in one application.

LEVELFLEX is the perfect choice when preparing a substrate to lay under floor heating, wooden block, laminate, ceramic tiles, natural stone, vinyl, parquet, cork, 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 all types of surface/substrate prior to applying Levelflex, please refer to "Substrates" below.

ADVANTAGES:

- Single part, simply mix with water
- Fast setting, can start tiling after 3 hours
- Flexible, perfect for underfloor heating & plywood
- Direct heavy traffic
- Fibre reinforced
- Can be pump applied for large areas

APPLICATION SURFACES

- Timber boards
- Plywood
- Chipboard
- Underfloor heating
- Anhydrite screeds

FINISHED SURFACES

- Natural Stones
- Porcelain
- Vinyl flooring
- Resin
- Ceramic



TECHNICAL DATA SHEET

RECOMMENDED TOOLS :

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

MIXING & APPLICATION:

Mix by adding powder to water, approximately 4.5 – 5 litres of water to 20kg of LEVELFLEX. We suggest starting at 4.5 litres of water which can then be increased to a maximum of 5 litres if necessary. Do not exceed 5 litres of water. Exceeding 5 litres of water per unit will result in water bleed and therefore extended drying times and a weakened mix.

Mix ideally with an electric paddle until you obtain a lump free compound similar in consistency to single cream. When mixed allow to stand for 2 minutes and stir again before application. Use within 25 – 30 minutes of first mixing.

Pour a small quantity onto the prepared surface and trowel down lightly. Levelflex will start to cure 1 – 2 hours after application. The successive laying of coverings is possible after drying (12 – 24 hours depending on the ambient temperature and humidity). If you wish to build to a greater depth of 50mm, allow to dry and prime between applications.

Setting time will depend on atmospheric temperatures. It will be slowed by lower temperatures and accelerated by higher temperatures.

Tools must be cleaned in water thoroughly immediately after use.

LEVELFLEX 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 24 hour Helpline 01257 269243. 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 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.**

Asphalt/Bitumen: Make sure surface is free of loose dirt and dust. Prime the surface with Primeplus diluted 1 part water to 1 part Primeplus mixed with a little neat cement, sand or adhesive to form a brush on slurry.

Ceramic tiles: Remove loose dirt and dust. Prime the surface with Primeplus diluted 1 part water to 1 part Primeplus mixed with a little neat cement, sand or adhesive to form a brush on slurry.

Plywood: Plywood must be 12mm (minimum), exterior grade, screwed (not nailed) to the substrate at 6 inch/150mm centres. 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: When applying Levelflex onto existing under-floor heating you must switch heating off 1 week prior to application to allow the substrate to cool sufficiently. Once Levelflex has been applied, allow 1 week before switching heating on. Start with a low temperature, gradually increasing the temperature over 2 weeks.

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 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. 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 Levelflex 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.

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 to. Make sure surface is free of loose dirt and dust. Prime the surface with Primeplus diluted 1 part water to 1 part Primeplus mixed with a little neat cement or sand to form a brush on slurry.

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

Screed classification	CT-C35-F7 to BS EN 1381 3; 2002
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	> 23.0
28 Day	> 34.0
Flexural Strength N/mm2 (BS EN13892-2)	
1 Day	> 3.0
7 Day	> 5.0
28 Day	> 7.0

Flow properties using 30mm x 50mm flow ring	125 – 145 mm
Coverage	20 kg pack will cover 4.2 m² at 3mm thickness
Shelf Life	Stored correctly this product has a shelf life of 6 months
Colours	Grey
Pack Sizes	20kg
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.

