



FLOOR LEVELLER PLUS



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**FIBRE RE-INFORCED THICK-BED
FLOOR SMOOTHING UNDERLAYMENT**

**RAPID-HARDENING
WALK ON AFTER 3 HOURS**

**NO LATEX ADDITIVE REQUIRED
SUITABLE FOR HEATED SUB-FLOORS**

Description:

FLOOR LEVELLER PLUS is a polymer-modified, cement-based, protein-free, sub-floor smoothing underlayment, giving a consistently level screed up to 50mm thick. FLOOR LEVELLER PLUS incorporates specially blended cements, graded sands, built-in polymer, anti-shrink agents, ultra-fine glass fibres and organic super-plasticisers, which when mixed with water gives ideal properties for application over a comprehensive range of floor surfaces such as tamped or worn concrete and sand/cement floor screeds as well as the more challenging non-porous floors such as mastic asphalt, plywood and dense impermeable surfaces. It is particularly suited to heated sub-floors where its' ability to be laid to a thick-bed is usually sufficient to accommodate most types of wire-based heating systems. FLOOR LEVELLER PLUS will give improved adhesion to all types of substrate and provide enhanced abrasion and point-load resistance. This product is not suitable for external application.

Surface Preparation:

The receiving surface must be hard, sound and free from grease, dust and loose deleterious materials such as worn surface coatings, plaster and adhesive residues. Ground floor surfaces must be protected with an effective DPC membrane and new concrete slabs must be at least 4 to 6 weeks old. Non-porous surfaces must be thoroughly clean and free from oil, grease and bituminous residues, whilst porous surfaces (concrete or sand/cement screeds) will require priming with TILERS PRIMER SBR diluted at 1 part to 3 parts with water. Very porous surfaces (old / worn concrete) should also be dampened with water to reduce suction prior to priming and laying the levelling compound. Highly impermeable floors such as asphalt, power-floated and sealed surfaces will require the application of a bonding slurry, mixed as 1 part TILERS PRIMER SBR to 1 part neat OP Cement before FLOOR LEVELLER PLUS is then applied on top. Floors with sub-floor heating will require the heat source to be switched at least 24 hours before application and then for a further 28 days after.

Mix Preparation:

FLOOR LEVELLER PLUS, depending upon the surface type, should be added to water, in a clean container whilst mechanically stirring with a slow-speed mechanically powered paddle to give a very smooth, consistent and readily pourable levelling slurry. The recommended mixing proportions are 20kg powder no more than 4 litres of water. Use a slow speed mixing drill and whisk attachment for approx two to three minutes to remove all air bubbles. Do not mix more material than can be used within 10 to 20 minutes and do not re-wet part-used levelling compound, which should never be "freshened up" with further water additions, but should always be discarded once it appears to lose workability. Exceeding the recommended mix water addition rate will cause mix segregation leading to reduced strength in the cured screed and may result in surface dusting and cracking.

Application Method:

Pour the freshly mixed levelling compound onto the prepared surface and use a straight edged steel float to ensure the compound is evenly spread into all areas and corners. FLOOR LEVELLER PLUS will flow and smooth out trowel marks for about 15 to 20 minutes before it begins to firm up. The maximum total application thickness for this product is 50mm. In ideal conditions (20°C), FLOOR LEVELLER PLUS will remain flowable for 20 minutes and then reach final set after about 2 - 3 hours. After about 45 mins to 1 hour, the screed will have reached initial set, but can still take further finishing with a firmly applied steel float to remove any slight irregularities and flow-lines.

Coverage:

FLOOR LEVELLER PLUS will cover at a rate of 1.7kg per sq. metre per 1mm of screed depth. FLOOR LEVELLER PLUS is not recommended as a final wearing surface and should not be left exposed for more than a few days, before being over-laid with tiles, vinyl floor-covering or a suitably rated protective surface coating. Setting and hardening times will vary depending on temperature and ventilation. Setting and hardening times will be shortened at high temperatures and extended at low temperatures. Adequate ventilation is essential during the drying process and any draughts or exposure to excessive heat sources must be eliminated to ensure consistent drying.

Technical summary:

Mix ratio:	Flow life:	Initial set:	Compressive Strength:	Coverage:
20kg powder to 4 litres water	20 mins	2 – 3 hours	>35 N/ mm ² @ 28 days	1.7kg per sq. metre per mm

Storage & Packaging:

FLOOR LEVELLER PLUS is supplied in 20kg moisture resistant bags and has a storage life of not less than 12 months if stored in dry, un-opened conditions. FLOOR LEVELLER PLUS contains Portland cement and is therefore classified as irritating to eyes and skin. Consult the relevant material safety data sheet for advice on handling and safety procedures.

The information provided by this Technical data sheet is given in good faith and is to the best of our current knowledge true and accurate. However it is given without guarantee, as conditions of use and workmanship involved are both beyond our control. All information supplied is subject to the company's terms and conditions of sale, copies of which are available on request.



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