



# SELF-LEVELLING FLOORING COMPOUND



Issue – SLFC45-2/0413

## SUB-FLOOR SMOOTH UNDERLAYMENT

## RAPID-HARDENING WALK ON AFTER 3 HOURS

## MIXES WITH WATER OR FLOOR SCREED LATEX

### Description:

SELF LEVELLING FLOORING COMPOUND is a cement-based, protein-free, sub-floor smoothing underlayment, giving a consistently level screed from a feather-edge up to 6mm thick. SELF-LEVELLING FLOORING COMPOUND incorporates specially blended cements, graded sands and organic super-plasticisers, which with the addition of water gives the ideal properties for application to masonry-based floor surfaces such as tamped or worn concrete and sand/cement floor screeds. On non-porous floors such as mastic asphalt, plywood and painted or sealed surfaces, the SELF LEVELLING FLOORING compound should be mixed with FLOOR SCREED LATEX to give improved adhesion to the substrate with enhanced abrasion and point-load resistance.

### 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 PVA diluted at 1 part to 3 parts with water. Very porous surfaces (old / worn concrete) should 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 SELF LEVELLER mixed with FLOOR SCREED LATEX is applied. Floors where there is sub-floor heating will require SELF-LEVELLING COMPOUND also mixed with FLOOR SCREED LATEX and the heating source to be switched at least 24 hours before application and then for a further 28 days after. On sections where the floor level is more than 6mm below the final level, it is possible for small area repairs of the surface to be made by mixing the SELF LEVELLING FLOORING COMPOUND with coarse dry 3mm sand chippings at a 1 to 1 ratio before mixing with water to a mortar patching consistency and filling out the depression up to the general level of the rest of the floor. When this is complete and set, the final smooth levelling compound can then laid to give an even consistent finish however it is not recommended to exceed the recommended 6mm maximum thickness even by applying consecutive layers of levelling compound over previously set layers.

### Mix Preparation:

SELF-LEVELLING FLOORING COMPOUND, depending upon the surface type, should be added to water, or FLOOR SCREED LATEX in a clean container whilst mechanically stirring with a high-speed paddle to give a smooth, consistent and readily pourable levelling slurry. The recommended mixing proportions by volume are approximately 1 part water to 3.5 parts powder (2.25 litres per 10kg of powder). When using

FLOOR SCREED LATEX mix the full bottle (5litres) with a full 20kg bag of SELF-LEVELLING COMPOUND and mix thoroughly yielding a smooth flowing lump-free slurry. Do not add more water than is recommended, as this may prolong drying, lead to surface dusting and significantly reduce the compressive strength of the hardened screed. Part-used levelling compound should never be "freshened up" with later water additions, but should always be discarded once it appears to lose workability.

### 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. The SELF LEVELLING FLOORING COMPOUND will flow and smooth out trowel marks for about 15 to 20 minutes before it begins to firm up. The optimum application thickness for this product is 3mm, but depths up to 6mm can be achieved. In ideal conditions (20°C), SELF-LEVELLING FLOORING COMPOUND 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:

For a 3mm deep screed SELF LEVELLING FLOORING COMPOUND will cover at a rate of 1.7kg per sq. metre per 1mm of depth. SELF LEVELLING FLOORING COMPOUND 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.

### Storage & Packaging:

SELF LEVELLING FLOORING COMPOUND is supplied in 10 kg and 20kg moisture resistant bags and has a storage life of not less than 12 months if stored in dry, un-opened conditions. FLOOR SCREED LATEX is supplied in 5 litre bottles for mixing directly with SELF LEVELLING FLOORING COMPOUND as 1 x 5 litre per 20 kg sack. SELF LEVELLING FLOORING COMPOUND 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.

### Performance test data:

EN 13813:2002 - Cementitious screed material not intended as a wearing surface for use internally in buildings:

Compressive strength	37.4 N/mm <sup>2</sup>
Flexural Strength	9.3 N/mm <sup>2</sup>
Abrasion resistance	NPD
Reaction to Fire	Class F

### Technical summary:

Mix ratio:	Flow life:	Initial set:	Final set:	Coverage:
20kg powder to 4.5 litres water	20 mins	1 hour	3 hours	1.7kg per sq. metre per mm depth

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