

TECHNICAL INFORMATION

FLEXIBLE FLOOR LEVELLER

Product Data Sheet

DESCRIPTION

Flexible Floor Leveller is a Portland cement based self-smoothing underlayment with latex technology designed for use as a levelling compound. **Flexible Floor Leveller** is a blend of cements, fine silica sand and other additives designed to improve the setting and adhesion properties of the material.

USES

Flexible Floor Leveller is designed for use on areas of uneven prior to the installation of new floor coverings, especially in areas that may be subject to stress or movement such as installing; wooden floors, underfloor insulation or underfloor heating.

BENEFITS

The benefits of **Flexible Floor Leveller** are:
It is a pre-mixed blend of sand and cements which is mixed to the required consistency by adding water.
It does not require the addition of polymer latex.
The underlayment is more cost effective than most epoxy or other resin floor systems.
Sets within 2 hours, and can take pedestrian traffic in 4 hours.
Can be laid between 2 and 20mm.
Tiles or carpets can be laid after 24 hours

APPLICATION

Good substrate preparation and curing conditions are essential to provide optimum results.
In small areas, the system can be mixed and placed using a suitable hand drill and accessories but for large areas the use of a mixer pump is recommended.

SUB-FLOOR PREPARATION

Substrates should be hard, sound and free from dust, dirt, oil, grease, paint, plaster, laitance or other contaminants which could prove a barrier to adhesion. Heavily contaminated floors may require special treatment and specific advice should be sought. Generally, substrates are best prepared by mechanical methods such as shotblasting, planing or

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scabbling. The substrate should be vacuum cleaned prior to application of primer. Indoor and floor slab temperatures should exceed +6°C with a relative humidity not exceeding 95%.

PRIMING

Substrate priming should be carried out using Epoxy Primer blinded with 8/16's grade sand or by two coats of Acrylic Primer. Particularly porous or absorbent substrates may require an additional primer coat. Acrylic Primer should not be applied to substrates with a temperature of less than 6°C. Coverage depends upon the porosity of the substrate and the amount of primer dilution but is approximately 0.3/litres/m².

MIXING INSTRUCTIONS

- Thorough mixing of the **Flexible Floor Leveller** with water is essential and the best results are achieved by using electrically driven mixers.
- Small volumes can be mixed by hand, ensuring that containers and paddles are clean and free from oil or grease.
- Gradually add the powder to the water making sure that it is continuously mixed to give a uniform liquid consistency. It is recommended that approximately 5 litres of water be used per 25kg bag.
- Do not mix more **Flexible Floor Leveller** than can be used in 15 minutes.
- Pour a small quantity of the compound onto the prepared surface and trowel in lightly, follow immediately with further coatings to the required thickness.

Flexible Floor Leveller can be laid to a minimum thickness of 1mm and a maximum thickness of 5mm. As with all Portland cement based materials, the setting time and strength development of **Flexible Floor Leveller** is affected by temperature and it is recommended that the compound is not used below 15°C in critical applications. **Flexible Floor Leveller** should not be used in temperatures below 5°C. Do not over trowel the compound. It is necessary to provide adequate ventilation in the work area but windows and openings must be closed sufficiently to avoid draughts during and after application.

DRYING

At 5mm thickness and 20°C the floor should be ready to receive most standard floor coverings such as tiles or carpet after 24 hours.

If an impervious floor covering such as vinyl, or a moisture sensitive floor covering such as laminate / solid wooden flooring is being installed on top of **Flexible Floor Leveller**, it is recommended to check the relative humidity of the surface before installation and always follow the installation guidelines from the floor coving manufacturer.

STANDARDS

The installation of **Flexible Floor Leveller** should be completed in accordance with the relevant sections of the Codes of practice BS 8203, BS 8204 and BS 5325.

YEILD

3m² when laid at 5mm thickness
5m² when laid at 3mm thickness
15m² when laid at 1mm thickness

TYPICAL PERFORMANCE

When mixed at a w/p ratio of 0.2 (5 litres per 25kg bag) the following properties were obtained:

Pot Life 30 minutes
Initial flow 220-240mm
 (65mm diameter, 40mm high flow ring)

	Compressive	Flexural
1 day	10 N/mm ²	-
7 days	20 N/mm ²	4 N/mm ²
28 days	25 N/mm ²	7 N/mm ²

QUALITY CONTROL

All Tarmac products are factory blended, tested and packaged to quality control procedure in accordance with BS EN ISO 9001.

CLEAN UP AND SPILLAGES

Dry powders should be swept up and disposed of in accordance with the Local Authority.

PACKAGING & STORAGE

Flexible Floor Leveller is available in nominal 25kg sacks, palletised and shrink-wrapped. Palletised **Flexible Floor Leveller** should be stored in cool dry areas clear of the ground, sheeted or under cover and stacked not more than two pallets high. The product should be used on a first in – first out basis. Shelf life is 9 months from the date of manufacture printed on the bag when properly stored.

HEALTH AND SAFETY

Health and safety advice, which must be followed, can be found on the Material Safety Data Sheet. Users are advised to wear face mask, goggles, gloves and overalls when handling, mixing and applying cementitious products.

Contains Portland Cement. Contains Chromium (VI), which may produce an allergic reaction. Clothing contaminated by wet cement should be removed immediately and washed before reuse.

R38 - Irritating to skin. R41 - Risk to serious damage to eyes. S26 - In case of contact with eyes, rinse immediately with water and seek medical advice. S37/39 - Wear suitable gloves and eye/face protection. S2 - Keep out of reach of children.

INFORMATION, PRICES & ORDERING

For technical information, pricing and to place orders please contact us as follows:

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