

Product Data Sheet

FLEXIBLE FLOOR LEVELLER

FLOORING SCREED AND UNDERLAYMENTS

FLEXIBLE FLOOR LEVELLER

Description

Flexible Floor Leveller is a Portland cement based self smoothing flexible underlayment 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 characteristics of the material.

Uses

Flexible Floor Leveller is designed for use in areas of uneven flooring prior to the installation of new floor coverings especially where further movement may be required such as installing: wooden floors, underfloor insulation or underfloor heating.

Benefits

Flexible Floor Leveller is a pre-mixed quality controlled material which is mixed to the required consistency by adding water. Flexible Floor Leveller does not require the addition of polymer latex. The underlayment is more cost effective than most epoxy or other resin systems.

Flexible Floor Leveller sets within 3 hours, and can take pedestrian traffic in 6 hours.

Tiles or carpets can be laid on **Flexible Floor Leveller** after 24 hours.

Application

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, laitence 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 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

1. Thorough mixing of the Flexible Floor Levelling Compound with water is essential and the best results are achieved by using electrically driven mixers.
2. Small volumes can be mixed by hand, ensuring that containers and paddles are clean and free from oil or grease.
3. 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.
4. Do not mix more Flexible Floor Levelling Compound than can be used in 15 minutes.
5. 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 Levelling Compound can be laid to a feathered edge and up to a maximum thickness of 20mm. As with all Portland cement based materials, the setting time and strength development of Flexible Floor Levelling Compound is affected by temperature and it is recommended that the compound is not used below 15°C in critical applications. Flexible Floor Levelling Compound 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 20mm thickness and 20°C the floor will be ready to receive floor coverings after 24 hours although the relative humidity of the Flexible Floor Leveller and substrate should be checked before the application of impervious materials.

Standards

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

Yield

For every 1mm thickness 1.7kg of dry powder per square metre will be required, i.e. 1 square metre at 10mm thickness will require 17kg of dry powder.

Fresh Properties			
Pot Life	30 – 35 mins (temperature dependant)		
Flow Ring Valves:	220- 240mm (65mm Ø, 40mm High Flow Ring)		
Zero Plastic Shrinkage			
Hardened Properties:			
Compressive and Flexural Strength N/mm ² (air cured at 20°C) EN 196 Mortar Prisms			
Compressive		Flexural	
1 day	10		
7 days	20	7 days	4
28 days	25	28 days	7

Quality Control

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

Packaging and Storage

Flexible Floor Leveller is available in nominal 25kg sacks, palletised and shrink wrapped. **Flexible Floor Leveller** may also be available in Intermediate Bulk Containers or in Bulk Powder Tankers.

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 prior to 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 contact our Sales Office on the following:

Telephone: **08444 63 64 65** Fax: **08443 0997 01**

Email: **baggedproducts@tarmac.co.uk**

Visit our website: **www.tarmacbuildingproducts.co.uk**

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