



www.soflooring.com

Lee Floorstok  
Unit B1 The Dresser Centre  
Whitworth Street  
Manchester  
M11 2NE  
Tel: 0161 231 8080  
info@leefloorstok.co.uk  
www.leefloorstok.com

## Product Data Sheet

# SO FIBRE FLEX

**A PREMIUM FIBRE REINFORCED, FLEXIBLE, SELF SMOOTHING AND LEVELING, FAST SETTING COMPOUND**



### British Standard – Guidelines

All aspects of the installation must be in accordance with the requirements of BS 8204, BS 8203 (Installation of Resilient Floorcoverings) or BS5325 (Installation of Textile floor coverings). Complies with EN standards and supplementary specifications.

### Description

SO Fibre Flex is a technically advanced fibre reinforced smoothing and levelling compound that is designed to rapidly smooth and level existing substrates including timber prior to applying a floor finish.

SO Fibre Flex can be used in domestic, commercial and light industrial areas, being protein free, the product can be used in biologically sensitive areas, ideal for use in hospitals, laboratories, food preparation areas, food shops, restaurants, schools, care homes etc.

SO Fibre Flex can be used over Damp Proof Membranes. Apply the first coat of DPM and allow to dry and then apply a second coat. Whilst this is still wet broadcast 1.2mm kiln dried quartz directly over the DPM and allow to dry. Brush off any loose particles before laying the SO Fibre Flex. For the best results apply SO Fibre Flex at minimum 3mm thick.

### Mixing

Add 3.8 – 4.0 litres of clean water into a clean suitable container.

The powder should be added at a steady rate, while stirring continuously using a variable speed mechanical mixer. The material should be mixed until a smooth lump free consistency is achieved. For larger areas or greater thicknesses an appropriate mixing pump is more suitable.

### How much material?

Applied Thickness	Approximate Coverage Per Bag	Consumption Per 100m2 Area	Aggregate
3mm	4m2	25 bags	n/a
15mm	0.8m2	125 bags	n/a

The table should be used for guidance purposes only and all information given can be affected by the substrate texture and absorbency. The coverage given is based on a smooth non absorbent subfloor.

### Application

Pour the blended SO Fibre Flex onto the prepared sub-floor and spread in to place.

Above 3mm thickness, the mixture will self-level and self-smooth during application. From feather edge to 3mm, trowel apply as a conventional smoothing underlayment.

Where it is necessary to contain SO Fibre Flex, such as day work joints or edges of movement joints, wooden laths or similar should be used as flow-stops.

For greater thicknesses apply further layers after the previous one has set, first removing any laitance that may have occurred. All layers must be of a similar depth.

Priming is required between layers.

### Priming

Priming is always required. See table below.

Surface	Primer
Porous Substrates	SO Prime All (diluted 1:4 with water)
Non- Porous Substrates	SO Prime All (use neat - undiluted)
Calcium Sulphate Screeds	Consult Technical Support

### Tools

Suitable steel smoothing trowel, spiked roller, mixing bucket, electric drill, powder whisk or suitable pumping machine.

### Cleaning

Wash tools thoroughly with water immediately after use.

### Shelf Life

12 months in unopened bags from the date of packing.

### Storage

This product must be stored clear of the ground, under dry conditions, out of direct sunlight. Protect from frost. If allowed to freeze SO Flooring Products cannot guarantee the performance of the product.

# SO FIBRE FLEX

## Substrates

### Concrete & Sand/Cement Screeds

Concrete and sand/cement screeds must be dry and any laitance or surface treatments removed.

Sand/Cement screeds must have a moisture reading of less than 75% RH before work can begin.

Allow approximately 1 day per mm for drying of new screeds. It is also advised to prime sand/cement screeds to maintain a good flow and prevent air bubbles rising to the surface.

Porous surfaces may need more than one coat. Prime with SO Prime All diluted at 4 parts water to 1-part SO Prime All.

### Power Floated Concrete

The surface should have been allowed to dry for at least six weeks. Power Floated Concrete can have a loose top layer and, in some cases, laitance once it has dried.

Mechanically remove any laitance or surface treatments. All dust and debris must be removed using a vacuum.

### Ceramic, Quarry & Porcelain Tiles

The surface must be clean, dry, secure and free from dirt and dust.

Use SO Feather Finish to fill in the grout joints to make the surface level prior to priming and applying SO Fibre Flex.

### Under-floor Heating

Under-floor heating must be switched off 48 hours before and after application. When switching on start with a low temperature, gradually increasing it to its operating temperature at a rate of 5°C per day.

### Under-tile Heating

Use SO Fibre Flex to encapsulate under tile heating systems over plywood up to a maximum of 10mm.

### Flooring Grade Asphalt

The surface must be clean, secure and free from dirt and dust. A minimum application of 3mm (maximum 6mm) of SO Fibre Flex will be required.

### Vinyl Tiles

Existing hard vinyl tiles must be secure and adhered to the sand/cement or concrete substrate to which the vinyl tiles were originally applied. The surface must be clean, secure and free from dirt and dust.

### Floorboards and T/G boarding

Tongue and groove boards must be screwed down to the joists every 150mm to provide a rigid and flat surface.

Ensure the substrate is strong enough to support the leveller, adhesive and final floorcovering. Ensure there is sufficient ventilation beneath the substrate.

### Plywood Overlays

The plywood must be 5.5mm or thicker screwed/ring nailed at 150mm centres in the middle (grid style) and 100mm centres around the edges.

Use SO Feather Finish to fill in the joints etc prior to applying SO Fibre Flex.

### Metal Surfaces

The surface must be clean, dry, secure and free from dirt and dust. Use SO Feather Finish to fill in any joints to make the surface level prior to priming and applying SO Fibre Flex.

## Technical Information

Specification	SO Fibre Flex
BS EN 13813 Classification	CT-C30-F7
Application Thickness Unfilled Filled"	2mm to 50mm Consult Technical Support"
Working Life @ 20°C	20-30 minutes
Walk on time @ 20°C	2 hours
At 3mm thickness ready for Ceramic Tiles	4 hours
Resilient floor coverings / LVT (Dependent on thickness)	Approx 8 hours loose lay Approx 24 hours bonded
Application over non-absorbent surfaces	Allow 24 hours (in good drying conditions)
Installation Temperature	Minimum 5°C
Compressive Strength N/mm <sup>2</sup> (BS EN 13892-2) 1 Day 7 Days 28 Days	> 15.0 > 23.0 > 35.0"
Flexural Strength N/mm <sup>2</sup> (BS EN 13892-2) 1 Day 7 Days 28 Days	> 3.0 > 5.0 > 7.0"
Packaging	20kg bag

## Technical Terms & Definitions

### Porous (Permeable & Absorbent)

Porous surfaces are any materials having minute or narrow spaces through which liquid or air may pass. Examples of porous materials are quarry tiles (unsealed), unvarnished (unfinished) wood, concrete (not power floated), sand / cement screeds.

### Non-Porous (Impermeable & Non-Absorbent)

Non-porous surfaces tend to be thick, dense, and solid so that nothing can penetrate beyond its outer-most surface. Examples of non-porous surfaces are metal objects, varnished wood, laminate counters, granite, powered floated concrete, glazed ceramic tiles, porcelain tiles, flooring grade asphalt, quarry tiles (sealed) and vinyl.

### Fast Setting Screeds

Allow a faster setting time to achieve foot traffic within a shorter period. Such products may still require 12-24 hours to dry out completely (depending on thickness).

### Fast Drying Screeds

Allow for the quicker installation of floorcoverings. Such products may be dry within 4-6 hours (depending on thickness).

## Health & Safety Advice

SO Fibre Flex powder is classified under the Chemicals (Hazard Information and Packaging for Supply) Regulations.

The relevant Material Safety Data Sheet can be obtained from the website or directly from LeeFloorstok Ltd at the address listed.