

## Floor Level SFR

### Fibre-reinforced self-levelling mortar for planar substrate shaving



Floor Level SFR is a self-levelling modified-polymer cement mortar having fibre-reinforcement with Readymesh MR-060, offering accelerated grip and fast hardening. Applied prior to laying the flooring, it is perfect for levelling at thicknesses ranging from 3 mm to 25 mm so as to adapt to any type of covering.

**CUSTOMS CODE:** 3824 5090

**COMPONENTS:** Single-component

**APPEARANCE:** Powder

**AVAILABLE COLORS:** Gray

**PACKAGING AND DIMENSIONS:** Bag 25 kg - Pallet: 50 x (Bag 25 kg)

### FEATURES AND BENEFITS

The perfect pourability, fluidity and self-levelling properties of the mortar facilitate the coating operations, to quickly attain perfect planarity. By casting the product on the substrate and helping to spread the self-levelling product with a putty knife, the resulting surface is perfectly smooth thanks to the fine granulometry of the silica aggregate (with a maximum size of 0.5 mm). Floor Level SFR is additivated with shrinkage reducers-compensators and fibre-reinforced with the special steel microfibres of Readymesh MR-060 that confer the important levelling resistance to flexotraction, ductility and fracture energy and is designed for particularly stressed areas of application. As an additive, Floor Level SFR has a special high-flexibility powder adhesive that ensures the product bonds to various media without affecting the self-levelling characteristics and breathability to water vapour. The swift development of mechanical resistors ensures the immediate progression of construction operations and walkability just a few hours after application (approximately 4-5 hours at 20° C). Fast drying means the floor coverings and finishing operations can be applied sooner - always checking the moisture content of the hardened mortar with a calcium carbide hygrometer or electrical hygrometer and bearing in mind that the latter provides merely indicative values that should be calibrated on the product in advance.

### FIELDS OF APPLICATION

Floor Level SFR can be used to shave uneven substrates to be levelled then subsequently covered with various types of flooring (ceramic tiles, marble, wood, plastic material, and so on), especially in cases where speed of execution is required and the finished flooring needs high resistance to static loads and to dynamic stresses on the finished floor. Some substrate examples include: • concrete slabs and cement screeds; • heated floors; • existing concrete flooring, terrazzo tiles, natural stones, magnesite. • existing ceramic flooring with the substrates subject to priming with two-component Syntech RGS resin (consumption approximately 1.2 kilograms/m<sup>2</sup>) and casting of Floor Level SFR on wet resin.

### ALLOWED SUPPORTS

Concrete - Tiles - Floor screed - Bricks - Natural stones



## PREPARATION OF SUPPORTS

The surfaces on which the product is to be applied must be cleaned of dust, free from contamination, paints, loose and crumbly parts, and so on. Adopt effective mechanical measures to remove residues that could impact upon product adhesion. On media with standard absorption, slightly wet the substrate with water to clean the surface and favour the bonding of Floor Level SFR. If the substrate is particularly absorbent, weak and crumbly or whereby it is not possible to slightly wet, prime the surfaces with the special aqueous resin dispersion Bond Plus, preferably spreading the product with a rigid-bristle brush to promote penetration into the base. In all cases where surfaces are primed with Bond Plus, the application of Floor Level SFR must take place "wet-on-wet" immediately after the first priming — with a consumption of Bond Plus at about 200 grams/square metres. On non-absorbent, vitrified, ceramised bases — such as ceramic or klinker tiles — prime surfaces with the bicomponent Syntech RGS resin (with a consumption of 1.2 kilograms/m<sup>2</sup>) and apply Floor Level SFR onto the resin whilst still fresh. Floor Level SFR is pumpable but, since the product has accelerated grip, the casting must be continuous and without interruption (with the pump to be entirely emptied before any stoppage to the pumping lasting more than 10 minutes).

## MODE OF USE

Mix with a triple-helix paddle with a high rotational count or with a vertical axis mixer. Put 2/3 of the total water for the mixture into the mixer, gradually adding the product and the remaining water, stirring for about 2-3 minutes until obtaining a homogeneous mixture with castable consistency. The mixture must contain from 18% to 20% water by weight (from 4.5 litres to 5.0 litres per 25-kilogram bag). Strain the mixture thus obtained onto the substrate and spread with a rubber blade, standard metal putty knife or toothed trowel (angled to obtain the desired thickness). Thanks to its perfect self-levelling characteristics, Floor Level SFR immediately fills the grooves left by the toothed trowel and eliminates small imperfections caused by its passage (trowel markings). Finish the adjustment and smoothing operations within 20 minutes. The product has accelerated grip and hardening, meaning there should be no pause between mixing and application. The product cures in around 45 minutes and is walkable after a few hours.

## APPLICATION METHODS

Spatula - Notched finishing trowel - Straight edge

## TOOL CLEANING


Water


## KEY FEATURES

↔ Max. recommended thickness: 30 mm


→← Min. recommended thickness: 3 mm


 Nonflammable


 Shelf-life: 6 months

 UV-resistant

 Maximum diameter of aggregate: 0.5 mm

 Mix with water: 19-20 %

 Pot-life: 20 min

 Temperature of use: +5 / +30 °C



## TECHNICAL SPECIFICATIONS

EN 12190

Compressive strength after 1 day > **3 N/mm<sup>2</sup>**

EN 12190

Compressive strength after 28 days > **35 N/mm<sup>2</sup>**

EN 196

Flexural strength after 7 days > **5 N/mm<sup>2</sup>**

UNI EN 13057

Capillary absorption **0.35 kg·h<sup>0.5</sup>/m<sup>2</sup>**

UNI EN 1015-17

Chloride content < **0.01 %**

EN 1015-12

Bonding force > **1.5 N/mm<sup>2</sup>**

UNI EN 1015-6

Density **2200 kg/m<sup>3</sup>**

EN 12190

Compressive strength after 7 days > **25 N/mm<sup>2</sup>**

EN 196

Flexural strength at 1 day > **1 N/mm<sup>2</sup>**

EN 196

Flexural strength after 28 days > **9 N/mm<sup>2</sup>**

pH **12**

Setting time **40-60 min**

EN 13142

Static elastic modulus **20000 N/mm<sup>2</sup>**

## CONSUMPTION

Approximately 1.9 kilograms/square metre of Floor Level SFR is needed for every millimetre of thickness to be achieved.

## STORAGE AND CONSERVATION

Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance. Protect from humidity.

## PHOTO GALLERY



## ADDITIONAL CONTENT



## WARNINGS AND PRECAUTIONS

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge. Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage. Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

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