



FLR.0050

FLOOR LEVEL

Quick-hardening self-levelling mortar for planar substrate shaving

Customs Code

3824 5090

Packaging

- Bag 25 kg
- Pallet: 50 x (Bag 25 kg)

Application

- Spatula
- Notched finishing trowel
- Straight edge

Family
Floortech

Product Lines

- Building
- Floor

Components
Single-component

Type
Self-levelling cement mortars (levellers)

Functional Categories

- Construction of subbase and self-leveling screeds

Appearance
Powder

Certifications and legislations



EN 13813

Screed material and floor screeds - Screed material - Properties and requirements



C30 F7

EN 13813

General description

FLOOR LEVEL is a self-levelling modified-polymer cement mortar with fibre-reinforcement, offering accelerated grip and fast hardening. Applied prior to laying the flooring, it is perfect for levelling at thickness ranging from 3 mm to 15 mm so as to adapt to any type of covering.

General features

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 base and helping to spread the self-levelling product with a spatula, 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 serves as an additive with reducer-shrinkage compensators and fibre-reinforcement with special anti-cracking glass microfilaments, being alkali-resistant and with high zirconium content (READYMESH technology), all to confer exceptional dimensional stability to the product. In the case of particularly intense static or dynamic stresses, the FLOOR LEVEL SFR version is available, improved with the addition of READYMESH MR-060 steel microfibers. As an additive, FLOOR LEVEL 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 laying (approximately 4-5 hours at 20° C). Fast drying means 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, bearing in mind that the latter provides merely indicative values that should be calibrated on the product in advance.

Dosage

Approximately 1.8 kg/m² of FLOOR LEVEL for each millimetre of thickness to be made.

Fields of application

FLOOR LEVEL can be used for 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 loads and heavy traffic. Some substrate examples include: • concrete foundations and cement screeds; • substrate in anhydrite; • heated flooring; • existing flooring in concrete, marble chip tiles (marmette), natural stones and magnesite; • existing ceramic flooring subject to priming the base with two-component SYNTTECH RGS resin (consumption approximately 1.2 kilograms/m²) and casting FLOOR LEVEL on wet resin. The FLOOR LEVEL SFR version, improved with the addition of READYMESH MR-060 steel microfibres, is available for particularly stressed areas of application, such as insoles subjected to intense dynamic-vibrational stresses, which enhance the anti-shrinkage functions and increase the toughness and the tensile strength of the self-levelling mortar.



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Basic features

 Max. recommended thickness: 15 mm	 Maximum diameter of aggregate: 0.5 mm
 Min. recommended thickness: 3 mm	 Mix with water: 19 %
 Nonflammable	 Pot-life: 20 min
 Shelf-life: 6 months	 Temperature of use: +5 / +30 °C
 UV-resistant	 Available colours Gray

Technical specifications

<i>Bonding force (EN 1015-12):</i> > 2 MPa
<i>Capillary absorption (UNI EN 13057):</i> 0.35 kg/(m ² • h ^{0.5})
<i>Chloride content (UNI EN 1015-17):</i> < 0.01 %
<i>Compressive strength after 01 day (EN 12190) :</i> > 4 MPa
<i>Compressive strength after 28 days (EN 12190) :</i> > 38 MPa
<i>Density (UNI EN 1015-6):</i> 2050 kg/m ³
<i>Flexural strength after 28 days (EN 196):</i> > 8 MPa
<i>Flexural strength at 01 day (EN 196):</i> > 2 MPa
<i>Permeability to water vapor μ:</i> 40 _
<i>pH:</i> > 12 _
<i>Setting time:</i> 40-60 min
<i>Static elastic modulus (EN 13142):</i> 18000 MPa

Tools cleansing

- Water

Applicable on

- Concrete
- Tiles
- Floor screed
- Bricks
- Natural stones

Substrate preparation

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 base with water to clean the surface and favour the bonding of FLOOR LEVEL. When the base 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. On surfaces primed with BOND PLUS, FLOOR LEVEL must be applied "wet-on-wet" as soon as priming is performed, with a BOND PLUS consumption of approximately 200 grams/m². 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/m²) and apply FLOOR LEVEL onto the resin whilst still fresh. FLOOR LEVEL is pumpable but, since the product has accelerated grip, the jet must be continuous and without interruption (with the pump to be entirely emptied before any stoppage to the pumping lasting more than 10 minutes).



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Instructions for 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 fluid 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 surface and spread with a rubber squeegee, standard metal spatula or toothed spatula (angled to obtain the desired thickness). Thanks to its perfect self-levelling characteristics, FLOOR LEVEL immediately fills the grooves left by the toothed spatula and eliminates small imperfections caused by the passage of the spatula (spatula 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.

Storage and preservation

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.



Warnings, Precautions and Ecology

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.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: www.azichem.com. The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

Please note that the user is required to read the latest Safety Data Sheet for this product, containing chemical-physical and toxicological data, risk phrases and other information regarding the safe transport, use and disposal of the product and its packaging. For consultation, please visit: www.azichem.com.

It is forbidden to dispose of the product and/or packaging in the environment.



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FLOOR LEVEL is produced/distributed by



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