

Floor Level

Quick-hardening self-levelling mortar for planar substrate shaving



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 20 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)

OBTAINED CERTIFICATIONS AND REGULATIONS



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 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.

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 Syntech 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.

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 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).

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 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.

APPLICATION METHODS

Spatula - Notched finishing trowel - Straight edge


TOOL CLEANING


Water


KEY FEATURES

↔ Max. recommended thickness: 20 mm


→← Min. recommended thickness: 3 mm


 Nonflammable


 Shelf-life: 6 months

 UV-resistant

 Maximum diameter of aggregate: 0.5 mm

 Mix with water: 19 %

 Pot-life: 20 min

 Temperature of use: +5 / +30 °C



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TECHNICAL SPECIFICATIONS

EN 12190

Compressive strength after 1 day > **3 MPa**

EN 12190

Compressive strength after 28 days > **35 MPa**

EN 196

Flexural strength after 7 days > **5 N/mm²**

UNI EN 1015-6

Density **2050 kg/m³**

UNI EN 1015-17

Chloride content < **0.01 %**

EN 1015-12

Bonding force > **2 MPa**

Permeability to water vapor **40**

EN 12190

Compressive strength after 7 days > **25 N/mm²**

EN 196

Flexural strength at 1 day > **1 MPa**

EN 196

Flexural strength after 28 days > **8 MPa**

pH > **12**

Setting time **40-60 min**

EN 13142

Static elastic modulus **18000 MPa**

UNI EN 13057

Capillary absorption **0.35**

CONSUMPTION

Approximately 1.8 kg/m² of Floor Level for each millimetre of thickness to be made.

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.

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