



FLR.0265

FLOOR Q SFR

Super-fluid composite structural mortar for concrete with reduced thickness

Customs Code

3824 5090

Packaging

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

Application

- Finishing trowel
- Spatula
- Brick trowel
- Pour out
- Straight edge

Family
Floortech

Product Lines

- Building
- Infratech
- Floor

Components
Single-component

Type

Extremely high-performance micro concretes for low-level adjustments and reconstructions on concrete flooring

Functional Categories

- Construction of structural subbase screeds
- Construction of subbase and self-leveling screeds

Appearance

Powder

Certifications and legislations



EN 13813

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



EN 1504-3

Products and systems for the protection and repair of concrete structures - Structural and non-structural repair (R4)

General description

This rheoplastic, composite cementitious grout with controlled-shrinkage and super-fluid consistency is fibre-reinforced with a special mix of steel (READYMESH MM-150) and polypropylene fibres, having a base of high-strength cements, polymeric modifiers, anti-shrinkage agents, super-pozzolanic reactive fillers and selected siliceous aggregates. It is ideal for restoring the thickness of concrete removed by milling, of old concrete flooring (with a reconstruction thickness from 15 mm to 40 mm), along with dimensional adjustments, structural reintegration and so on, where high resistance to static and dynamic stresses is required.

General features

FLOOR Q SFR has a working time of about 60 minutes, after which the gripping process is triggered followed by progressive hardening. Plastic and hygrometric shrinkage are extremely low, ensuring volumetric stability when restored. The benefits of FLOOR Q SFR include:

- resistance to dynamic stress;
- resistance to fatigue, fracture energy, toughness and resistance to post-breaking loads;
- high mechanical compressive resistance (>70 MPa at 28 days);
- high mechanical flexion-tensile resistance (>13 MPa at 28 days);
- excellent durability and resistance to chemical attacks.

Dosage

Approximately 21 kilograms/square metre of FLOOR Q SFR per centimetre of thickness to be achieved (approximately 2100 kilograms per cubic metre).

Fields of application

Repair and coating of industrial concrete flooring, structural reintegration, dimensional adjustments, increase of cross-section resistance, reconstruction of the thickness of concrete removed through milling. Restorations and structural reinforcements where high resistance to static and dynamic stresses is required.













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Basic features

 Max. recommended thickness: 10 cm	 Maximum diameter of aggregate: 5 mm
 Min. recommended thickness: 25 mm	 Mix with water: 11-13 %
 Nonflammable	 Pot-life: 60 min
 Shelf-life: 12 months	 Temperature of use: +5 / +35 °C
 UV-resistant	 Available colours Gray

Technical specifications

Bonding force (UNI EN 1015-12): 2.0 N/mm²

Capillary absorption (UNI EN 13057): 0.34 kg•h^{0.5}/m²

Compressive strength after 01 day (UNI EN 1015-11): > 30 N/mm²

Compressive strength after 28 days (UNI EN 1015-11): > 70 N/mm²

Density (UNI EN 1015-6): 2350 kg/m³

Flexural strength after 28 days (UNI EN 1015-11): > 13 N/mm²

Flexural strength at 01 day (UNI EN 1015-11): > 6.5 N/mm²

Static elastic modulus (EN 13412): 33000 N/mm²

Wear resistance (UNI EN 13892-3): 6.0 cm³/50cm²

Tools cleansing

- Water

Applicable on

- Concrete
- Prefabricated concrete
- Fiber-cement
- Bricks
- Mixed walls (bricks and stones)
- Stone walls
- Rock walls

Substrate preparation

The applicative surfaces must be clean, free from contamination or any loose or crumbling parts, dust, and so on, suitably saturated with water. In the event of surfaces to be reconstructed after milling, the reconstruction areas must be as even (and square-shaped) as possible. The thickness is to be as homogeneous as possible. Finally, the section to be filled with the pre-existing flooring must recall the shape of a trapezoid that widens downwards (in order to perfectly anchor the “patch” in the site of reconstruction and prevent its detachment, given the slightly expansive properties of the product).

Instructions for use

In the restoration of industrial floors, adopt the necessary measures to ensure adequate mechanical collaboration between the restoration and substrate. To do so, there are 2 alternative ways in which to proceed:

- spread the epoxy primer specific for structural cast recovery (SYNTECH RGS) on the prepared surface with a roller or brush;
- prepare a suitable additional reinforcement, parallel to the base of the reconstruction, consisting of welded mesh (2 mm wire, 5 x 5-centimetre mesh) at half the distance from the base and secured to the base by means of “L” steel bars with a 6-cm diameter to improved adhesion, fitted into the specific holes and fastened with MICRO-J GROUT expansive cement mortar or polyester resin in the extrusible two-component cartridge SYNTECH PROFIX. For structural restorations carried out by means of formwork castings, carefully dismantle the surfaces of the formwork. Allow at least 48 hours before dismantling. To prepare the mortar, add 2/3 of the total water of the blend into the concrete mixer, gradually adding the product and the remaining water until obtaining a homogeneous mixture of the desired consistency. Once prepared, take the mixture to the reconstruction site then trowel on until completely smooth.



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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.

FLOOR Q SFR is produced/distributed by



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