

Grout 6 SFR

Castable structural, reinforced, controlled shrinkage shotcrete



Grout 6 SFR is a high-performance, self-levelling castable mortar, being fibre-reinforced with Readymesh MM-150 steel fibres and 6 mm Readymesh PM-060 polypropylene microfibres, with high flexural strength, great adhesion to concrete and steel, and shrinkage compensation. Aggregates with a maximum size of 6 mm. It is ideal for anchoring road joints, restorations, reinforcements and seismic adjustments, offering ductility for medium-to-high thicknesses (5-20 cm), on structures in reinforced concrete and masonry.

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



FIELDS OF APPLICATION

Structural restoration and adjustments, recovery and anchoring of road, motorway, airport joints and critical area joints in general.

ALLOWED SUPPORTS

Concrete - Asphalt

PREPARATION OF SUPPORTS

Application surfaces should be clean, free of soiling, crumbling and non-adhering parts, dust, etc., conveniently saturated with water until they reach the condition "saturated with dry surface". An adequate roughening of the surfaces by scarifying, sandblasting etc. is always necessary in order to obtain the maximum adhesion values to the substrate. The optimal values are obtained with high pressure hydro-scarification. Bare the irons undergoing disruptive oxidation or deeply oxidized, removing the rust of the exposed irons (by sandblasting or abrasive brushes).



MODE OF USE

Pour about 2/3 of the mixing water into the mixer, add Grout 6 SFR and the remaining water; continue to mix until a homogeneous lump-free mixture is obtained. The mixing water should be about 13%-15% by weight (3.5-4.5 litres per bag). Adopt casting procedures capable of ensuring the absence of discontinuities and avoid the formation of air pockets. For high anchoring sections it is appropriate to add Ghiaietto 6.10 (please refer to the appropriate technical data sheet for more information).

APPLICATION METHODS

Brick trowel - Pour out - Finishing trowel - Spatula

TOOL CLEANING

Water

KEY FEATURES

-  Highlighted product
-  Mix with water: 11 - 14 %
-  Pot-life: 60 min
-  Use wearing protective gloves
-  Maximum diameter of aggregate: 5 mm
-  Nonflammable
-  Temperature of use: +5 / +35 °C
-  UV-resistant

TECHNICAL SPECIFICATIONS

UNI EN 12190

Compressive strength after 1 day > **30 N/mm²**

UNI EN 12190

Compressive strength after 28 days > **80 N/mm²**

UNI EN 196/1

Flexural strength after 7 days > **10 N/mm²**

UNI EN 13295

Resistance to carbonatation **dk < cls standard mm²/m**

UNI EN 12390-8

Water penetration under pressure (5 bar for 72 hours) < **5 mm**

UNI EN 13687-2

Thermal compatibility > **2 N/mm²**

UNI EN 13057

Capillary absorption < **0.40 kg•h^{0.5}/m²**

UNI EN 1015-17

Chloride content < **0.01 %**

UNI EN 12190

Compressive strength after 7 days > **60 N/mm²**

UNI EN 196/1

Flexural strength at 1 day > **6 N/mm²**

UNI EN 196/1

Flexural strength after 28 days > **12 N/mm²**

UNI EN 1881 75 kN

Pull-out resistance on masonry support, Pull Out < **0.6 mm**

EN 13412

Static elastic modulus **29 GPa**

UNI EN 1542

Bonding force > **2.5 N/mm²**

UNI EN 1015-6

Density **2250 kg/m³**

CONSUMPTION

Approximately 21,50 kg/m² of Grout 6 SFR for every centimetre of thickness to be implemented (approximately 2150 kg per cubic metre).



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



Produced and distributed by **AZICHEM srl**
Via Giovanni Gentile, 16/A - 46044 Goito (MN), Italy
Tel: +39 0376.604185 / 604365
Fax: +39 0376 604398
www.azichem.com - info@azichem.com

Update of **13-01-2022**
Terms of sale and legal notices available at
<https://www.azichem.com/general-sales-conditions>
Total pages of this document: 4

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.

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.

