

Grout 6

Castable, rheoplastic, structural, controlled shrinkage grout mortar



Grout 6 is a high-performance, self-levelling pourable mortar that is fibre-reinforced with Readymesh PM-060 microfibres, with high durability even in aggressive environments, great adhesion on concrete and steel and compensated shrinkage. Aggregates with a maximum size of 6 mm. It is ideal for restorations, reinforcements and seismic adjustments for medium-to-high thicknesses (4-15 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, dimensional adjustments, reinforcements, high dimension anchorages, drawing and armouring works, etc., by pumped or poured casting installation. Realisation of structural road joints.

ALLOWED SUPPORTS

Concrete - Prefabricated concrete - Mixed walls (bricks and stones) - Rusty reinforcement rods

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

Insert 2/3 (approximately 2.5 litres per bag) of the total mixing water in the cement mixer, then gradually add the product and the remaining water, mix until a homogeneous lump-free mixture of the desired consistency is obtained. For high anchoring sections Ghiaietto 6.10 should be added (please refer to the appropriate technical data sheet for more information).

APPLICATION METHODS

Pour out

TOOL CLEANING

Water

KEY FEATURES

↔ Max. recommended thickness: 30 cm

↔ Min. recommended thickness: 1(*) - 4 cm

🕒 Pot-life: 60 min

🌡️ Temperature of use: +5 / +35 °C

🌀 Maximum diameter of aggregate: 6 mm

🌀 Mix with water: 10-12 %

🕒 Shelf-life: 12 months

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 > **9 N/mm²**

UNI EN 13295

Resistance to carbonatation **0.5 mm**

UNI EN 13036-4

Skid resistance **50 mm**

< **70 µg/m³**

UNI EN 12390-8

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

UNI EN 12664

Thermal conductivity **0.82 W/mK**

EN 13501-1

Reaction to fire **A1**

UNI EN 1542

Bonding force ≥ **2 N/mm²**

UNI EN 13057

Capillary absorption **0.49 kg·h^{0.5}/m²**

UNI EN 12190

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

UNI EN 196/1

Flexural strength at 1 day > **5 N/mm²**

UNI EN 196/1

Flexural strength after 28 days > **11 N/mm²**

Resistance to the extraction of the steel bars with improved adhesion > **30 MPa**

UNI PdR 88:2020

Total recycled content ≥ **2.7 %**

UNI EN 1015-17

Chloride content < **0.01 %**

UNI EN 13687-1

Determination of thermal compatibility ≥ **2 MPa**

Concrete adhesion (cutting test) > **5 MPa**

EN 13412

Static elastic modulus **30000 N/mm²**

UNI EN 1015-6

Density **2190 kg/m³**

CONSUMPTION

Approximately 19,50 kg/m² of Grout 6 for every centimetre of thickness to be implemented (approximately 1950 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



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WARNINGS AND PRECAUTIONS

Given the self-levelling properties of the product and its self-compacting properties, it is recommended to pay special attention to the vibration step. A excessive zeal in the vibration operation can worsen the aesthetic appearance of the resulting product.

Do not use in the absence of adequate lateral confinement.

Cure the protection and the moist hardening of exposed surfaces.

Adopt casting procedures capable of ensuring the absence of gaps and discontinuities, pouring the mortar from a single part of the casting perimetre to avoid air pockets. 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.

