



GRT.0264

## GROUT 6 HP

Reo-plastic, high structural strength pouring concrete

### Customs Code

3824 5090

### Packaging

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

### Application

- Pour out

Family  
**Grout**

Product Lines

- Building
- Infratech

Components

**Single-component**

Type

**Structural free-flowing cement mortars**

Functional Categories

- Block repair of concrete works with free-flowing mortars
- Roads and municipal maintenance interventions
- Structural maintenance of dams, reservoirs, ducts and water ducts
- Structural maintenance of bridges and viaducts
- Structural maintenance of tunnels
- Structural precision anchoring

Appearance

**Powder**

## Certifications and legislations



**EN 1504-6**

Products and systems for the protection and repair of concrete structures - Anchoring of reinforcing steel bar

## General description

GROUT 6 HP is a high performance pouring concrete for reinforced concrete structural rebuilds, with mechanical compression and flexion resistances far superior to normal structural mortars.

## General features

"ANTI-CORROSION & REINFORCING BAR PROTECTION, GROUT 6 HP's strengths include:

- The combination of high strength superfine binders, combined with superfine, pozzolanic action silicones, makes the mortar, after curing, intrinsically waterproof;
- Highly alkaline pH (> 12) protects reinforcing bars from corrosion onset;
- Negligible carbon dioxide breathability gives the hardened concrete extreme anti-carbonation properties.

These various anti-corrosive properties makes the standard passivation treatment of reinforcing bars, before casting pouring concrete, UNNECESSARY, provided that, between bare metal cleaning and the casting of the pouring concrete, not too much time passes, with the risk of triggering oxidative processes. Therefore, only in case of long exposure times between metal cleaning and casting, it is recommended to use a passivation mortar (such as REPAR MONOSTEEL or REPAR STEEL), applied on the steel bars by brush only.



## Dosage

Approximately 20,50 kg/m<sup>2</sup> of GROUT 6 HP for every centimetre of thickness to be implemented (approximately 2050 kg per cubic metre).

## Fields of application

Pump or pour casting structural rebuilds, adjustments, strengthening, anchorage, forming, blinding, etc.

## Basic features

- |   |   |
|---|---|
|  Max. recommended thickness:<br>20 cm  |  Maximum diameter of aggregate:<br>6 mm |
|  Min. recommended thickness:<br>2.5 cm |  Mix with water:<br>10 %                |
|  Pot-life:<br>10 min                   |  Shelf-life:<br>12 months               |
|  Temperature of use:<br>+5 / +35 °C    |  Available colours<br>Gray              |

IF YOU WANT TO SOLVE IT  


[www.azichem.com](http://www.azichem.com)

Updated: 20/12/2019

General sales conditions and legal notices on

[www.azichem.com/disclaimer](http://www.azichem.com/disclaimer)

# Technical specifications

Bonding force (UNI EN 1542): 3 N/mm<sup>2</sup>

Chloride content (UNI EN 1015-17): < 0.01 %

Compressive strength (UNI EN 1015-11): > 115 N/mm<sup>2</sup>

Compressive strength after 03 days (UNI EN 1015-11): > 80 N/mm<sup>2</sup>

Compressive strength after 07 days (UNI EN 1015-11): > 90 N/mm<sup>2</sup>

Density (UNI EN 1015-6): 2350 kg/m<sup>3</sup>

Flexural strength (UNI EN 1015-11): > 16 N/mm<sup>2</sup>

Reaction to fire (EN 13501-1): A1 \_

Resistance to carbonatation (UN EN 13295): 0.5 mm

Static elastic modulus (EN 13412): 32000 N/mm<sup>2</sup>

## Tools cleansing

- Water

## Applicable on

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

## Substrate preparation

Application surfaces must be clean, free of dust, contamination, crumbling, inconsistencies, etc., and adequately saturated-surface-dry with water.

## Instructions for use

Mix the whole contents of a GROUT 6 HP bag with effective vertical-axis mixers for at least 6 minutes, add less water (9% = 2.25 l/25 kg bag) than the total water allowance (10% = 2.5 l/25 kg bag) and mix for a further 4 minutes.

After this mixing time, assess the mix consistency and, if necessary, gradually add water up to the desired consistency, without exceeding the limit of 10% (i.e. 2.5 l/25 kg bag). Mix at high speed for at least another two to three minutes.

For high casting sections, it is recommended to add GHIAIETTO 6.10 (see the relevant technical data sheet and ask for further dosage information from our technical service).

## 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.



[www.azichem.com](http://www.azichem.com)

Updated: **20/12/2019**  
General sales conditions and legal notices on [www.azichem.com/disclaimer](http://www.azichem.com/disclaimer)

## 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](http://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](http://www.azichem.com).

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

"Given the self-leveling and self-compacting properties of the product, it is recommended to pay particular attention to the vibration stage. Excessive vibration can affect the aesthetic quality of the structure.

Do not use in the absence of adequate lateral confinement."

*GROUT 6 HP is produced/distributed by*



Via Giovanni Gentile, 16/A - 46044 Goito (MN), Italy  
info@azichem.com Tel. +39 0376.604185 /604365 Fax +39 0376 604398



[www.azichem.com](http://www.azichem.com)

Updated: **20/12/2019**  
General sales conditions and legal  
notices on  
[www.azichem.com/disclaimer](http://www.azichem.com/disclaimer)