

## Grout 6 R3

Pourable grout with compensated shrinkage accelerated setting and hardening



Grout 6 R3 is a pourable, shrinkage-compensated, accelerated setting and hardening cement grout, which acquires its fluid consistency by mixing the premix with water through effective mechanical mixing. Its fluid consistency makes it pourable into appropriately prepared locations, without the risk of segregation of the aggregates and the emergence of mixing water (bleeding). The progression of mechanical resistance begins approximately 60 minutes after installing the product, making the product particularly suitable in all those operational areas where rapid development of mechanical performance and easy, fast and productive installation are required.

**CUSTOMS CODE:** 3824 5090

**COMPONENTS:** Single-component

**APPEARANCE:** Powder

**AVAILABLE COLORS:** Gray

**PACKAGING AND DIMENSIONS:** Bag 25 kg - Pallet: 50 x (Bag 25 kg)

### FEATURES AND BENEFITS

Grout 6 R3 has a workability time of approximately 30', after which the accelerated setting and hardening processes begin to develop. The grout can be walked on after less than two hours and, after 24 hours, it already develops mechanical compressive strengths greater than 15 MPa. The specific mass of the grout facilitates installation operations and allows for reduced product consumption, of approximately 1900 kg/m<sup>3</sup>, with a saving in the costs of the applied product. The particular composition and the special additives contained give the grout high mechanical performance even over long periods of time, impermeability to water and resistance to abrasion. Grout 6 R3 is particularly suitable for filling trench excavations for laying telephone and electrical cables, laying water and gas pipes, sewer pipes and similar operations as, thanks to its fluidity, it flows easily without the aid of particular manual or mechanical compactions inside the trenches, meshing with the roughness of the walls, without sagging, maintaining perfect dimensional stability over time.

### FIELDS OF APPLICATION

- Filling excavations made in the ground after laying pipes, electrical and telephone cables.
- Restoration of industrial floors and road works that need to be reopened to traffic quickly.
- Fixing of inspection pits and sewer manholes.
- Fixing of concrete, wood and fiberglass poles for electricity, telephone and lighting lines.
- Bases for machinery and urban accessories.

### ALLOWED SUPPORTS

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



## PREPARATION OF SUPPORTS

Remove dust and loose parts from the trench or the location where the casting takes place.

- Saturate waste with water.
- Wait for the excess water to evaporate; To facilitate the elimination of non-absorbed water from the support, use specific liquid vacuum cleaners or use compressed air.

## MODE OF USE

Mix Grout 6 R3 with 12% - 13% of water calculated on the weight of the premixed product. Grout 6 R3 remains workable for approximately 25 minutes at a temperature of +20°C. Pour Grout 6 R3 into the location to be filled. The fluidity of the product allows the filling of irregular, tortuous and distant excavations from the casting point, without particular vibration works. Finish the surfaces with a spatula. In the case of filling excavations that cross roadways, it is possible to proceed with the reasphalting of the area subject to the intervention, within approximately 12 hours of pouring.

### Castings in cold climate:

- Check that the support is not frozen.
- Mix the product with warm water.
- Store the product, before use, in a protected environment

### Castings in warm climate:

- Mix with cold water.
- Protect the fresh surface of the grout from rapid evaporation of water by using waterproof sheets for at least 24 hours, or by using Cruing Aid seasoning agent, or by frequent wetting

## APPLICATION METHODS

Pour out - Pump

## TOOL CLEANING

Water

## KEY FEATURES

↔ Max. recommended thickness: 30 cm

↔ Min. recommended thickness: 3 cm

🕒 Pot-life: 25 min

🌡️ Temperature of use: +5/+35 °C

📏 Maximum diameter of aggregate: 6 mm

🌀 Mix with water: 12-13 %

🕒 Shelf-life: 12 months

☀️ UV-resistant



## TECHNICAL SPECIFICATIONS

EN 12390-3

Compressive strength after 1 day **15 MPa**

EN 12390-3

Compressive strength after 28 days **40 MPa**

EN 196/1

Flexural strength after 7 days **6 MPa**

pH **12.5**

EN 13142

Static elastic modulus **30.000 N/mm<sup>2</sup>**

EN 13501-1

Reaction to fire **A1**

EN 12390-3

Compressive strength after 7 days **32 MPa**

EN 196/1

Flexural strength at 1 day **4 MPa**

EN 196/1

Flexural strength after 28 days **7 MPa**

Density **2100 kg/m<sup>3</sup>**

UNI EN 1015-17

Chloride content **0.01 %**

## CONSUMPTION

Approximately 19 kg/m<sup>2</sup> of Grout 6 R3 for each centimeter of thickness to be created (approximately 1900 kg for each cubic meter).

## 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. Store the product at a temperature between +5°C and +35°C.

## 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](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.

