

# Grout Micro-J

Micromortar anti-shrinkage rheoplastic, castable, injectable



An anti-shrinkage, pourable, self-levelling, super-adhesive micro-mortar, based on high-strength cements, super-pozzolanic fillers, polymeric stabilisers and anti-shrinkage agents. Aggregates with a maximum size of 0.35 mm. Ideal for consolidating and reinforcing injections on concrete, masonry and cracked/damaged rock. Anchors and fastens steel bars, pins, brackets and so on, to concrete, masonry and rock.

**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

Injections of reinforcement and reinforcement of concrete, masonry, rock works etc. Anchoring and fixing of ties, electrowelded steel mesh, beam ends for construction joints etc. Sealing of post-tensioning sheathing. Creation of filling paddings in the spaces between conduits and excavation holes.

## ALLOWED SUPPORTS

Concrete - Mixed walls (bricks and stones) - Stone walls - GFRP - Calcestruzzo armato

## 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). When used for anchoring and fixing of bars, perform holes with an increased diameter of at least 4 mm compared to the diameter of the bar. Suck the dust inside the hole. Abundantly humidify the internal surface of the hole to facilitate entry, scrolling and adherence of the micromalta to the support.

## MODE OF USE

Pour 2/3 of the total mixing water into the mixer, gradually add the product and, subsequently, the remaining water, mixing until a homogeneous mixture of the desired consistency is obtained. GROUT MICRO J can be mixed with different consistencies, from plastic to self-leveling pourable. With 12-13% of water (3.0 - 3.25 liters / 25 kg bag) plastic consistencies are obtained, with 13-14% (3.25-3.5 liters / 25 kg bag) consistencies castable, with 14-15% (3.5-3.75 l / 25 kg bag) self-leveling fluid consistencies. Small-volume doughs can be mixed with a double / triple helicoid whisk equipped with a speed regulator. Put in place by injection or pouring within 60' of packaging. If the temperature, at the time of application, is between 0 and 5 ° C, the development of mechanical strength will be slower. It is recommended, with cold temperatures, to use lukewarm mixing water between 20 ÷ 30 ° C. If the temperature, at the time of application, is between 30 and 35 ° C, it is advisable to use mixing water at a low temperature (5 ÷ 10 ° C) and to apply the product in the coolest hours of the day (indicatively morning or evening).


## APPLICATION METHODS


Pour out - Injection - Pump


## TOOL CLEANING


Water

## KEY FEATURES

 Maximum diameter of aggregate: 0.50 mm

 Shelf-life: 12 months

 Pot-life: 60 min

 Temperature of use: +5 / +35 °C

## TECHNICAL SPECIFICATIONS

UNI EN 12190

Compressive strength after 1 day > **28 N/mm<sup>2</sup>**

UNI EN 12190

Compressive strength after 28 days > **85 N/mm<sup>2</sup>**

UNI EN 196/1

Flexural strength after 7 days > **11 N/mm<sup>2</sup>**

Steel bar extraction at a load of 75 kN (EN 1504/6) < **0.6 mm**

pH > **12**

Darcy impermeability **10<sup>-10</sup> cm/s**

EN 13142

Static elastic modulus **25000 N/mm<sup>2</sup>**

UNI EN 1015-6

Density **2250 kg/m<sup>3</sup>**

UNI EN 13057

Capillary absorption **0.08**

UNI EN 12190

Compressive strength after 7 days > **70 N/mm<sup>2</sup>**

UNI EN 196/1

Flexural strength at 1 day > **7 N/mm<sup>2</sup>**

UNI EN 196/1

Flexural strength after 28 days > **12 N/mm<sup>2</sup>**

Thermal conductivity **0.68 W/mK**

UNI EN 1542

Chloride content **0.002 %**

UNI EN 1015-12

Bonding force > **2.5 N/mm<sup>2</sup>**

RILEM-CEB-FIP RC6-78

Resistance to the extraction of the steel bars with improved adhesion > **24 N/mm<sup>2</sup>**

No bleeding according to UNI 8998

## CONSUMPTION

Approximately 1700 kg of Grout Micro-J for every cubic metre of mixture to be made.



## 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



## 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.

