

## 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**

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**

pH > **12**

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

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>**

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

Thermal conductivity **0.68 W/mK**

UNI EN 1542

Chloride content **0.002 %**

## CONSUMPTION

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



Produced and distributed by **AZICHEM srl**  
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## 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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