

## Grout Cable

Superfluid, reinforcing, injectable cement grout



Super-fluid, injectable, cementitious grout with very high flowability and stability, moderately expansive in the plastic phase, for fixings, anchors, wall consolidation, fillings, filling of post-tension sheaths, etc., based on high-strength cements, specific additives, fillers superpozzolanic reagents. Maximum particle size 0.06 mm.

**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



### FEATURES AND BENEFITS

Grout Cable is a cement-based powder product, suitably added to obtain slurries with very high mechanical resistance, without shrinkage and without "bleeding", hyperfluid, pourable and self-compacting. The slurries are easily injectable into holes, cavities, discontinuities, cracks and porous conglomerates. Grout Cable's request for mixing water, extremely low, is close to the quantity fixed stably, chemically and physically by the cement (stoichiometric water); this results in exceptional characteristics in terms of stability, performance, impermeability, and durability. The durability is further increased by the high content of microsiliates with pozzolanic reactivity, which distinguishes the product and which gives it very high resistance to sulphates. The presence in the formulation of specific long-chain polymers, with a stabilizing function and also of water retention, allows maturation and development of optimal mechanical performance even in the presence of severe exposure environments (XC, XS, XD, XA). The formulation is free from metal expansives. Dimensional stability: + 0.4 mm / m (conditions of no loss of water by suction or evaporation)

### FIELDS OF APPLICATION

Consolidation, anchoring and repair of concrete and masonry structures. Filling of cable containment sheaths in post-tensioned structures or anchor rods with the prevention of "stress corrosion" in tensioned steel cables. Maintenance and anticorrosion prevention works of degraded sheaths. Works in concrete or damaged masonry. Consolidation of conglomerates and cracked, damaged or very porous masonry. Bridging of discontinuities. Fastening of steel elements (pins, clamps, connectors). Consolidation and repair of works subjected to environmental, dynamic, hydraulic stresses, such as tunnels, hydraulic, marine, underground works, industrial buildings.

### ALLOWED SUPPORTS

Concrete - Prefabricated concrete - Mixed walls (bricks and stones) - Stone walls



## PREPARATION OF SUPPORTS

Application surfaces should be clean, free of dirt, crumbling and non-adhering parts, dust etc., and saturated with water "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

- Pour about 2/3 of the mixing water into the mixer, gradually add Grout Cable and the remaining water until a fluid, homogeneous and lump-free mixture is obtained.
- Application temperature > 5 ° C, < 35 ° C. The best fluidity is obtained with grout temperature  $\geq 15$  ° C. Lower temperatures slightly reduce fluidity. With winter temperatures, the use of hot mixing water is recommended.
- Moisten the cavities or conglomerates to prevent the suction of the supports from limiting the smoothness and removing the mixing water before hardening. Wet a few hours before injecting the grout, avoiding water pockets and any excess water on the surface. Clogging and consolidating fillings can be carried out both by gravity and by manual / automatic pumps, depending on the type of application.
- Keep the external and exposed surfaces of the grout moistened for at least 24 hours


## APPLICATION METHODS

Pour out - Injection


## TOOL CLEANING

Water


## KEY FEATURES

 Mix with water: 33 - 35 %

 Shelf-life: 12 months

 UV-resistant

 Nonflammable

 Temperature of use: +5/+35 °C

## TECHNICAL SPECIFICATIONS

Compressive strength after 28 days (EN 196-1) with fluidity  $t_0 = 25$  " (EN 445) > **50 N/mm<sup>2</sup>**

Flexural strength after 28 days (EN 196-1) with fluidity  $t_0 = 25$  " (EN 445) > **6.5 N/mm<sup>2</sup>**

UNI EN 13057

Capillary absorption **0.25**

UNI PdR 88:2020

Total recycled content  $\geq$  **9.8 %**

UNI EN 1542

Chloride content **0.0029 %**

EN 196-3

Setting time < **24 h**

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

Density **2000 kg/m<sup>3</sup>**

Compressive strength after 28 days (EN 196-1) with fluidity  $t_0 = 45$  " (EN 445) > **70 N/mm<sup>2</sup>**

Flexural strength after 28 days (EN 196-1) with fluidity  $t_0 = 45$  " (EN 445) > **9.5 N/mm<sup>2</sup>**

Volume change (EN 445) < **0.5 %**

pH > **12**

Exuded water (EN 445) < **0.1 %**

UNI EN 1015-12

Bonding force > **3 N/mm<sup>2</sup>**

Initial setting time (EN 196-3) > **3 h**



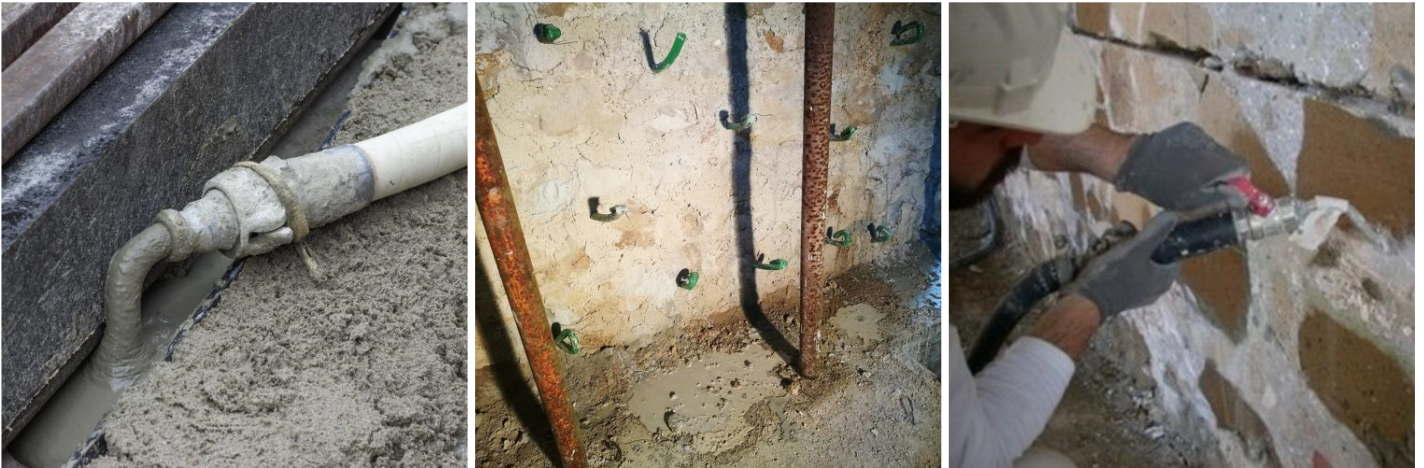
## CONSUMPTION

Approximately 1700 kg of Grout Cable for each cubic metre of volume to be filled.

## 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



The physical mechanical data derive from tests carried out with addition water percentages of 34%.



## 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.

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

