



GRT.0074

GROUT CR

Castable, anti-leaching, shrinkage-compensated cement mortar

Dosage

1950 kg /m³

Packaging

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

Application

- Pour out
- Pump
- Brick trowel
- Finishing trowel
- Spatula



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Family
GROUT

Product Lines

- Infratech

Components

Single-component

Type

Structural free-flowing cement mortars

Functional Categories

- **Block repair of concrete works with free-flowing mortars**
- **Construction and maintenance interventions on airport runways and quays**
- **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 998-1

Specification for Mortar for Masonry - General purpose rendering/plastering mortar (GP)



EN 1504-3

Products and systems for the protection and repair of concrete structures - Structural and non-structural repair (R4)

General description

Composite, castable, anti-washout, controlled shrinkage cement mortar, superfluid consistency, based on high-resistance cements, superpozzolanic fillers (MICROSIL 90), polymeric modifiers, shrinkage resistant agents, specific additives, calcium silicate mineral fibres, selected silica aggregates.

General features

- Based on of thickened silica fume
- three-dimensionally reinforced fibre with mineral and synthetic fibres
- Provides high adherence and adhesion
- dimensionally stable (shrinkage-compensated)
- Provides high stability-physical chemical and resistance to chlorides and sulphates
- suitable for underwater castings: it is anti-washout
- high strength in terms of hydrostatic positive and negative thrust

Fields of application

Repair and protective coatings of hydraulic structures, marine and underwater structures, and articles in critical situations: harsh chemical-physical, leaching water, marine atmosphere, etc. Filling of formwork for the containment of cast immersed in sea water.

Available colours

- Gray

Basic features



Highlighted product



Maximum diameter of aggregate:
5 mm



Mix with water:
14-16 %



Nonflammable



Pot-life:
120 min



Shelf-life:
12 months



Solvent-free



Temperature of use:
+5 / +35 °C



UV-resistant

Technical specifications

Bonding force (UNI EN 1542): 2.6 N/mm²

Capillary absorption (UNI EN 13057): 0.43 kg•h^{0.5}/m²

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

Compressive strength (UNI EN 12190): > 58 N/mm²

Density (UNI EN 1015-6): 2085 kg/m³

Determination of thermal compatibility (UNI EN 13687-1): 2.5 mPa

Flexural strength (EN 196/1): > 8 N/mm²

pH: >12 _

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

Resistance to carbonatation (UNI EN 13295): 3 mm

Skid resistance (UNI EN 13036-4): 54 mm

Static elastic modulus (EN 13412): 26000 N/mm²

Tools cleansing

- Water

Applicable on

- Concrete
- Bricks
- Mixed walls (bricks and stones)
- Stone walls

Instructions for use

Pour 2/3 of total mixture water in the cement mixer, gradually add the product and the remaining water, until a homogeneous mixture of the required consistency is obtained. For sizable filling thicknesses, greater than 60 mm, GHIAIETTO 6.10 (inert washed is selected with a particle size of from 6-10 mm) can be added in a percentage ranging from 20% to 40 %, on the basis of practical requirements.

In some particularly demanding cases in terms of the resistance to the "dry-wet" cycle (for example, for the action of the tides) or for chemical attacks particularly strong, it would be advisable to add, in addition to the gravel, even thickened silica fume (MICROSIL 90), and in a variable amount depending on the thickness and construction-related need, to further improve the waterproofing and the mechanical strength of the product. In these cases, please contact our Technical Service.

Substrate preparation

In case of underwater application, the installation operations must be carried out within 8-10 hours of cleaning and "fouling" (accumulation and deposits of organic and inorganic particles on product surfaces) removal.

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.



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Warnings, Precautions and Ecology

Technical and performance data outlined in this document are the result of laboratory testing conducted in a conditioned environment, as such they can result as considerably changed from operating and application conditions. The need follows to carry out preliminary tests in actual use conditions.

The user is required to check the product's most recent Material Safety Data Sheet, reporting physical-chemical and toxicological data, risk phrases and other useful information on how to safely transport, use and dispose of the product and its packaging. It is also reminded that the product and its packaging must not be dispersed in the environment for any reason.

Thermal range of application and conservation: +5/ +35 °C; do not apply in case of direct exposure to sunlight. Cure the protection and the moist hardening of exposed surfaces. In the case of casts in water, make sure of perfect product hardening before removal of the formwork.

GROUT CR is produced/distributed by



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