



ADX.0274

FLUID CR

Powder additive for cement conglomerates

Customs Code

3816 000

Packaging

- Bag 25 kg
- Big bag 1000 kg
- Pallet: 50 x (Bag 25 kg)

Application

- To be added to other components

Family
Admix

Type
Multifunctional powder additives/concentrates for packaging injectable slurry, dehumidifying plasters and accelerating admixtures for the hold of mortars and plasters

Product Lines
• Aqua
• Infratech

Functional Categories
• **Improvement of mechanical and/or rheological performance of newly manufactured mortars, plasters and concretes**
• **Construction and maintenance interventions on airport runways and quays**
• **Structural maintenance of dams, reservoirs, ducts and water ducts**
• **Improvement of waterproofing capacity and/or impermeabilisation of mortars, plasters and concretes**

Components
Single-component

Appearance
Powder

General description

Fluid CR is a powder additive for pourable concretes, grouts and mortars, formulated with microlysyls with pozzolanic activity, hyperfluifying additives, expansive additives and special anti-segregation polymers. Mixed together with water and the anhydrous components of cement conglomerates (aggregates and binders), it significantly increases their performance, improving both fresh and hardened characteristics.

General features

The addition of the Fluid CR additive allows the improvement of various characteristics of the conglomerates, both in the fresh state and in the hardened state.

Fresh:

- drastically reduces the water/cement ratio;
- makes the mixture anti-washout therefore advisable, often indispensable, in castings in the presence of water (both fresh water and sea water) inside the formwork;
- avoids segregation and bleeding phenomena (separation of the mixing water);
- improves the workability of the casting, both in plastic and fluid consistencies, reaching self-compacting workability;

In the hardened state:

- increases the mechanical performance in compression, bending, traction, abrasion;
- drastically decreases the porosity, increasing the compactness of the casting and the impermeability, arriving at realizing, with suitable mix designs, intrinsically waterproof concretes;
- increases the chemical-physical resistance and consequently the durability of the conglomerate;
- the slightly expansive characteristics, induced in the conglomerates by the special additives contained in the formulation, allow for the drastic reduction of shrinkage phenomena and the prestressing of the reinforcing rods.

Fluid CR is perfectly compatible and synergistic with all our metallic and/or synthetic fibers of the READYMESH line. The introduction of Fluid CR in fiber-reinforced conglomerates increases the meshing between fiber and matrix, enhancing the mechanical performance induced by the fibrous components.

Fluid CR is perfectly compatible and can be used with all types of Portland, Pozzolanic, Blast Furnace or Composite cement available on the market.

- Expansion opposed with dosages > 30 kg/m³ (UNI 8147): > 0.01%
- Increase in mechanical resistance: 10-30%

Dosage

From 15 to 80 kg/m³ according to the foreseen uses.

Recommended dosages:

- castings for industrial floors: from 15 to 30 kg/m³
- castings for structural reinforcements: from 15 to 50 kg/m³
- castings with anti-washout characteristics: from 40 to 80 kg/m³

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Fields of application

Packaging of concretes, grouts and mortars: • low water/cement ratio; • rheoplastic-rheodynamic; • inherently waterproof; • anti-leakage and free from segregation and bleeding. Application fields: • industrial floors; • structures in contact with groundwater or sea water; • underwater jets; • structural reinforcements by encasement of nodes, beams and pillars in reinforced concrete; • masonry reinforcement; • sub-foundations and platings with slightly expansive characteristics.

Basic features



Density:
1100 kg/m³



Maximum diameter of aggregate:
0.3 mm



Nonflammable



Shelf-life:
12 months



Available colours
Gray

Technical specifications

Riduzione del rapporto a/c: 10 - 30 %

Exudation con dosaggi > 30 kg/m³ a 3 h (EN 445): < 1.5 %

Tools cleansing

- Water

Applicable on

- Concrete
- Calcestruzzo armato

Instructions for use

Fluid CR must be added to the dry components of the conglomerate (binders and aggregates), together with the mixing water. In concrete mixing plants it is recommended to introduce the additive after or together with the introduction of the aggregates and before the introduction of the cement. After adding the product, provide for adequate mixing in order to obtain a homogeneous mixture without lumps. Adjust the mixing water according to the effect of reducing the w/c ratio induced by the formulation.

As far as setting times are concerned, Fluid CR is considered a neutral additive, i.e. it does not involve changes to the normal setting and hardening times of the concrete in which it is inserted.

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



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Warnings, Precautions and Ecology

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. 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.

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

FLUID CR is produced/distributed by



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