



ADX.0058

FLUID COL

Additive for producing rheoplastic, castable, anti-shrinkage conglomerates

Dosage

0.12 - 0.15 kg /kg
(Recommended: 0.14 kg /kg)

Packaging

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

Application

- To be added to other components
- Pour out
- Finishing trowel
- Pump
- Straight edge

Family
Admix

Product Lines
• **Infratech**

Components
Single-component

Type
Multi-purpose powder concentrates for manufacturing thixotropic and adhesive mortars

Functional Categories
• **Block repair of concrete works with free-flowing mortars**
• **Improvement of mechanical and/or rheological performance of newly manufactured mortars, plasters and concretes**
• **Manufacturing plasters and mortars "in situ"**
• **Structural precision anchoring**

Appearance
Powder

General description

Multi-purpose additive powder, to add to a suitable mixture of binders and aggregates, for the on-site production of mortars, grouts and concretes that are self-levelling, rheoplastic, controlled shrinkage or moderately expansionary, high mechanical strength, chemical and waterproofing.

General features

The physical-chemical action of FLUID COL is an interaction of positive contributions and modifications: drastic reduction of the A/C ratio, shrinkage-resistant action, superpozzolanic action and reaction of ultrafine fillers (MICROSIL 90), which transforms unstable, soluble, readily reactive calcium hydroxides into stable, insoluble, chemically and mechanically resistant hydrous calcium silicates.

Fields of application

Preparation of mortars, grouts, rheofluid concretes, shrinkage-compensated or moderately expansionary, high mechanical, watertightness and chemical stability performance, for structural slabs, anchoring machines, road joints, etc.

Available colours

- Gray

Basic features



Nonflammable



Pot-life:
50-60 min



Shelf-life:
12 months



Solvent-free

Tools cleansing

- Water

Applicable on

- Concrete
- Asphalt

Instructions for use

Add the product in a concrete mixer, mixer truck or mixer, together with the remaining anhydrous components of the mixture: cement and aggregates, any polypropylene and/or steel fibres, etc. The indicative dosage, depending on the type of conglomerate to be packaged and its purposes, varies between 12% and 15% of the weight of the cement.

After a first mixing, add the mix water and mix thoroughly, until you obtain a homogeneous whole and free of lumps. The cement dosage must not be less than 350 kg/m³. FLUID COL is perfectly compatible with the addition of fibre d steel and/or polypropylene fibres READYMESH, for the preparation of conglomerates composite s, fibre reinforced.

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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Average performance gains

Waterproofing	300 %
Resistance to chlorides	60 %
Mechanical resistance	50-60 %
Adhesion to concrete	40-50 %
Resistance to anti-leaching water	80-100 %
Reduction of bleeding	100-120 %
Reduction of segregation	100-120%

Indicative mix design

The table below reports an indicative mix for packaging preliminary mixes (the dosages are expressed in kg/m³). The exemplary mixtures reported are merely indicative; as to the suitability of the product for the specific uses it must nevertheless at least be subject to preliminary tests.

Cement 42.5 R type II AL	420
FLUID COL	50
Aggregates (0-15 mm)	1720
Water (A/C max = 0.45)	180
Total (theoretical density)	2370

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.



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FLUID COL is produced/distributed by



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