

## Fluid Col

Additive for producing rheoplastic, castable, anti-shrinkage conglomerates



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.

**CUSTOMS CODE:** 3824 4000

**COMPONENTS:** Single-component

**APPEARANCE:** Powder

**AVAILABLE COLORS:** Gray

**PACKAGING AND DIMENSIONS:** Bag 25 kg - Pallet: 50 x (Bag 25 kg)

### FEATURES AND BENEFITS

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.

### ALLOWED SUPPORTS

Concrete - Asphalt

### MODE OF 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/m<sup>3</sup>. 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.

### APPLICATION METHODS



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




## TOOL CLEANING

Water

## KEY FEATURES

-  Nonflammable
-  Shelf-life: 12 months

 Pot-life: 50-60 min

## CONSUMPTION

Add 10 - 15% of Fluid Col to the weight of the cement present in the mixture.

## 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



## SPECIFICATION ITEM

For the packaging of mortars, grouts, of concretes, rheofluid, anti-leaching, shrink-resistant mortar, high waterproofing and high mechanical performance and chemical resistance, must be provided for the addition of the polyvalent additive Fluid Col by AZICHEM srl, dosed by an amount of 12 - 15 % by weight on the weight of the cement used (minimum 350 kg/m<sup>3</sup> of conglomerate).



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## ADDITIONAL CONTENT



## 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/m<sup>3</sup>). 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 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.

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](http://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](http://www.azichem.com).

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

