



ADX.0065

FLUID TIX

Multi-purpose, thixotropising, shrinkage-resistant admixture

Customs Code

3824 4000

Packaging

- Bag 20 kg
- Pallet: 50 x (Bag 20 kg)

Application

- To be added to other components
- Brick trowel
- Finishing trowel
- Shotcrete machine
- Plastering machine



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Family
Admix

Product Lines
• Infratech

Components
Single-component

Type

Multi-purpose powder concentrates for manufacturing thixotropic and adhesive mortars

Functional Categories

- **Structural strengthening of masonry in historic buildings**
- **Repair and restoration of concrete structures with thixotropic mortars**
- **Manufacturing plasters and 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**

Appearance
Powder

General description

Multi-purpose powder reinforced fibre admixture, to be added to a correct mixture of binders and aggregates, for producing on-site rheoplastic, thixotropic, controlled shrinkage, high mechanical, chemical, waterproofing performance mortars, grouts and concretes.

General features

FLUID TIX performs a physical-chemical type action and can be regarded as a complex interaction of positive contributions and modifications. Specifically, the superpozzolanic reaction (transformation of the unstable, soluble and dangerously reactive calcium hydroxide Ca(OH)_2 into the mechanically and chemically stable and insoluble calcium silicate hydrate) yields significant advantages in terms of performance and hardness. The physical action of ultrafine fillers (MICROSIL 90) causes increases in matrix density, compactness and strength in a composite system already positively modified by the presence of the fibrous reinforcement.

Conglomerates with added FLUID TIX are therefore reinforced fibre composite s, particularly suitable for structural coatings, works and durable repairs, in the context of aggressive atmospheres: marine, mountain, urban and industrial.

Dosage

From 40 to 60 kg of FLUID TIX for every cubic metre of mixture to be made.

Fields of application

Production of reinforced fibre controlled shrinkage concrete: plaster, grouts, gunite; thixotropic, self-sustaining, high watertightness and high performance in terms of chemical resistance (sulphates, chlorides, leaching water etc.), mechanical and overall hardness.

Basic features



Highlighted product



Nonflammable



Pot-life:
50 min



Shelf-life:
12 months



Solvent-free



Temperature of use:
+5 / +30 °C



Available colours
Gray

Tools cleansing

- Water

Applicable on

- Concrete
- Fiber-cement
- Bricks
- Mixed walls (bricks and stones)
- Stone walls
- Rock walls

Instructions for use

FLUID TIX must be added in the concrete mixer or in the mixer, successively with the remaining solid components of the mixture: cement and aggregates. After first mixing, add the mixing water, then continue to mix until a homogeneous lump-free mixture is obtained. Lay the thixotropic concrete thus obtained with a brick trowel and a plastering trowel, or with a plastering machine (like Turbosol). Cure the protection and the moist hardening of exposed surfaces.

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.



Average performance gains

Waterproofing	300-400 %
Resistance to chlorides	60 %
Mechanical resistance	40-50 %
Adhesion to concrete	40-50 %
Alkali-aggregate reaction	Suppression
Resistance to sulphates	equivalent to SRC cements
Reduction of rebound scrap	80%

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	380
FLUID TIX	50
Aggregates in continuous curve (0-6 mm)	1760
Water (A/C max = 0.45)	170
Total (theoretical density)	2360



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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.

FLUID TIX is produced/distributed by



Via Giovanni Gentile, 16/A - 46044 Goito (MN), Italy
info@azichem.com Tel. +39 0376.604185 /604365 Fax +39 0376 604398



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