

# Idromix Liquido e Polvere

**WATER-REPELLENT TECHNOLOGICAL MASS WATERPROOFING AGENT, GUARANTEED FOR PREPARING CEMENT MORTARS AND CONCRETE WITH LOW WATER ABSORPTION. PREVENTS THE APPEARANCE OF SUPERFICIAL EFFLORESCENCE.**



**TECHNICAL DATA SHEET - REV. 01/2024**

## DESCRIPTION

IDROMIX LIQUIDO is a liquid additive based on water-repellent products in water emulsion to be added during the mixing phase to the cement, aggregate and water mixture to obtain concrete with water-repellent properties. IDROMIX LIQUIDO reacts with the cement components, severely limits water absorption in the capillary pores of hardened concrete and prevents the appearance of surface efflorescence. IDROMIX LIQUIDO, used at a rate of 0.6-1.2% of the cement weight, makes the mix more homogeneous, cohesive and compact, reduces the concrete's internal gaps, introduces water-repellent particles into the residual porosity and does not alter the cement's start and finish setting times.

IDROMIX POLVERE is a hydrophobic - fluidifying powder additive to be added to the cement during the mixing phase, aggregate and water mixture to obtain concrete with water-repellent and highly workable characteristics. IDROMIX POLVERE reacts with the cement components, severely limits water absorption in the capillary pores of hardened concrete and prevents the appearance of surface efflorescence. IDROMIX POLVERE, used at a rate of 1-2 kg per 100 kg of cement, makes the mix more homogeneous, cohesive and compact, reduces the concrete's internal gaps and does not alter the cement's start and finish setting times.

## FIELDS OF APPLICATION

IDROMIX is suitable for all applications where improved waterproofing and reduced capillary absorption are required. IDROMIX is used for making concrete with low water absorption for building foundations, slabs, harbour docks, dams, swimming pools, basins, earth walls, walls subject to the action of moisture or heavy rain. IDROMIX is also suitable for the manufacture of moisture-resistant mortars for stone or brick masonry and for the manufacture of cement products with high resistance to weathering.

## APPLICATION

### IDROMIX LIQUIDO

Add IDROMIX LIQUIDO in the concrete mixer after having added all other elements (water, cement and aggregates). Mix until a homogeneous, lump-free paste is obtained, ensuring perfect dispersion of the additive in the cement matrix.

### IDROMIX POLVERE

Mix IDROMIX POLVERE in a concrete mixer with all the other elements (water, cement and aggregates) and then add water until a homogeneous, lump-free paste with the desired workability is obtained.

## YIELD

### IDROMIX LIQUIDO

Recommended dosage by volume: 0.6 to 1.2 kg per 100 kg of cement, depending on the desired hydrophobic effect.

### IDROMIX POLVERE

Recommended dosage by volume: 1 to 2 kg per 100 kg of cement, depending on the desired hydrophobic effect.

## RECOMMENDATIONS

- ◆ When preparing concrete, do not add IDROMIX LIQUIDO to the dry mix.
- ◆ The product must be PROTECTED FROM FROST and strong sunlight.
- ◆ After prolonged storage, mix the product carefully before use.
- ◆ For works where impermeability from pressurised water is required, the hydrophobic action of IDROMIX LIQUIDO may not be sufficient. In this case, it is advisable to make more compact concretes using FLUICEM liquid technological superplasticiser.
- ◆ Wash all the equipment used for preparation and application of the product with water before it hardens.

## PACKAGING

IDROMIX LIQUIDO is supplied in 25 kg plastic cans on 825 kg pallets, in 5 kg plastic cans on 450 kg pallets, and in 1 kg bottles in boxes of 20. Store the product in a dry place and in its original packaging, well closed. In these conditions its stability lasts at least 12 months.

IDROMIX POLVERE is supplied in 1 kg plastic bags in boxes of 25 pieces. Store the product in a dry place and in its original packaging, well closed. In these conditions, its stability lasts at least 12 months.

## SAFETY INSTRUCTIONS

IDROMIX is not considered hazardous according to current regulations on the classification of mixtures. It is recommended to avoid contact with the eyes and skin, to wear suitable rubber gloves, goggles and normal protective work clothing. Refer to the respective Safety Data Sheet for more information about how to use the product safely.

## SPECIFICATIONS

Packaging cementitious mortars and concrete with low water absorption with a high quality technological waterproofing mass, such as **IDROMIX** by Colmef Srl, capable of strongly limiting water absorption in the capillary pores of hardened concrete and preventing the appearance of surface efflorescence.

## TECHNICAL DATA - IDROMIX LIQUIDO

Classification according to EN 934-2:	water-resistant additive according to table 9
Appearance:	liquid
Colour:	whitish
Apparent specific weight (kg/l):	1.02
pH value:	11
Dosage:	0.6 to 1.2 kg per 100 kg of cement
Chloride content (%):	< 0.1
Alkali equivalent content (%):	< 3.0
Allowed application temperature:	from +5 °C to +35 °C

**TECHNICAL DATA - IDROMIX POLVERE**

Appearance:	powder
Colour:	white
Dosage:	1 to 2 kg per 100 kg of cement
Allowed application temperature:	from +5 °C to +35 °C

DATA DETECTION AT +23°C - 50% R.H. AND IN ABSENCE OF VENTILATION

The information in this bulletin is based on our best experience. We cannot be held liable for any product misuse. We therefore recommend anyone who intends to use this product to assess whether it is suitable for the intended application and to perform preliminary tests in any case. Always refer to the latest updated version of the technical data sheet available at [www.colmef.com](http://www.colmef.com).

**FOR MORE INFORMATION OR PARTICULAR USES, CONTACT THE COLMEF TECHNICAL SUPPORT DEPARTMENT.**

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