

Idromix

Liquid and Powder

HIGH-QUALITY TECHNOLOGICAL MASS WATERPROOFING HYDROFUGE, GUARANTEED FOR THE PRODUCTION OF CEMENT MORTARS AND CONCRETE WITH LOW WATER ABSORPTION. PREVENTS THE APPEARANCE OF SURFACE EFFLORESCENCE.



TECHNICAL DATA SHEET - REVISION 01/2024

DESCRIPTION

IDROMIX LIQUID is a liquid additive based on water-repellent products in aqueous emulsion to be added during mixing to the mixture of cement, aggregates and water, to obtain concrete with water-repellent properties. IDROMIX LIQUID reacts with the cement components, strongly limits water absorption by the capillary pores of hardened concrete and prevents the appearance of surface efflorescence. IDROMIX LIQUID, used at 0.6-1.2% of the cement weight, makes the mix more homogeneous, cohesive and compact, reduces the internal voids of the concrete, introduces water-repellent particles into the residual porosity and does not alter the initial and final setting times of the cement. IDROMIX POWDER is a hydrophobic-plasticizing powder additive to be added during mixing to the mixture of cement, aggregates and water, to obtain concrete with water-repellent properties and very good workability. IDROMIX POWDER reacts with the cement components, strongly limits water absorption by the capillary pores of hardened concrete and prevents the appearance of surface efflorescence. IDROMIX POWDER, used at 1-2 kg per 100 kg of cement, makes the mix more homogeneous, cohesive and compact, reduces the internal voids of the concrete and does not alter the initial and final setting times of the cement.

APPLICATION AREAS

IDROMIX is suitable for all applications where improved waterproofing and reduced capillary absorption are required. IDROMIX is used for producing concrete with low water absorption for foundations, slabs, port quays, dams, swimming pools, tanks, retaining walls and walls exposed to moisture or driving rain. IDROMIX is also suitable for producing moisture-resistant mortars for stone or brick masonry and cement products with high resistance to atmospheric agents.

APPLICATION

IDROMIX LIQUID

Add IDROMIX LIQUID to the concrete mixer after all other components (water, cement and aggregates) have been introduced. Mix until a homogeneous, lump-free paste is obtained, ensuring perfect dispersion of the additive in the cementitious matrix.

IDROMIX POWDER

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

COVERAGE

IDROMIX LIQUID

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

IDROMIX POWDER

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

RECOMMENDATIONS

- When preparing concrete, do not add IDROMIX LIQUID to the dry mixture.
- The product is sensitive to FROST and strong solar radiation.
- After prolonged storage, mix the product thoroughly before use.
- For works where waterproofing against pressurized water is required, the water-repellent action of IDROMIX LIQUID may not be sufficient. In this case, it is advisable to produce more compact concrete using FLUICEM liquid technological superplasticizer.
- Wash all equipment used for product preparation and application with water before the product hardens.

PACKAGING

IDROMIX LIQUID is supplied in 25 kg plastic jerrycans on 825 kg pallets, 5 kg plastic jerrycans on 450 kg pallets, and 1 kg bottles in boxes of 20 units. Store the product in dry conditions and in the original, tightly closed packaging. Under these conditions its stability is at least 12 months.

IDROMIX POWDER is supplied in 1 kg plastic bags in boxes of 25 units. Store the product in dry conditions and in the original, tightly closed packaging. Under these conditions its stability is at least 12 months.

SAFETY INSTRUCTIONS

IDROMIX is not considered hazardous under current regulations for the classification of mixtures. Avoid contact with eyes and skin; wear suitable rubber gloves, protective goggles and normal protective work clothing. For more information on safe use of the product, consult the relevant Safety Data Sheet.

SPECIFICATION TEXT

Production of cement mortars and concrete with low water absorption using a high-quality technological mass waterproofing hydrophuge, type IDROMIX LIQUID by Colmef Srl, capable of strongly limiting water absorption by the capillary pores of hardened concrete and preventing the appearance of surface efflorescence.

TECHNICAL DATA - IDROMIX LIQUID

Classification according to UNI EN 934-2:	water-resistant additive according to Table 9
Appearance:	liquid
Color:	whitish
Bulk density (kg/l):	1.02
pH value:	11
Dosage:	0.6 to 1.2 kg per 100 kg of cement
Chloride content (%):	< 0.1
Equivalent alkali content (%):	< 3.0
Permitted application temperature:	+5 °C to +35 °C

TECHNICAL DATA - IDROMIX POWDER

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

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

The information and instructions above are based on our best experience. However, we cannot accept any liability for incorrect use of the products. We therefore recommend that anyone intending to use them assess whether they are suitable for the intended application and, in any case, carry out preliminary tests. Always refer to the latest updated version of the technical data sheet, available on www.colmef.com.

FOR FURTHER INFORMATION OR SPECIAL APPLICATIONS, CONSULT COLMEF TECHNICAL SUPPORT.

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