

MAPECUBE 60W

Mechanical strength enhancer with fluidifying effect for low CO₂ emission concrete



DESCRIPTION

MapeCube 60W is a liquid mechanical strength enhancer with fluidifying effect.

MapeCube 60W, by optimising the hydration of cement phases, increases the mechanical strength of concrete and mortar at all ages.

WHERE TO USE

MapeCube 60W is particularly suitable for all types of concrete mixtures, regardless of the type of binder used. **MapeCube 60W** increases mechanical strengths in the medium to long term and allows the specified strength class of the concrete to be maintained with a significant reduction in cement dosage. With a lower cement dosage, **MapeCube 60W** guarantees lower CO₂ emissions associated with concrete production and therefore a lower environmental impact.

TECHNICAL CHARACTERISTICS

MapeCube 60W is an innovative admixture developed in the MAPEI research laboratories, designed for the production of high-performance, low-carbon concrete.

MapeCube 60W is formulated according to the 'HPSS - High Performance Sustainable Solutions' principles developed by Mapei and oriented towards improving the sustainability of concrete and developing maximum performance, both in the fresh and hardened state. In particular,

MapeCube 60W favours maximum reactivity and complete hydration of all the phases constituting the cement and maximum development of the final mechanical strengths.

APPLICATION PROCEDURE

To reach the best performance it is advisable to add **MapeCube 60** to concrete already mixed with a polyether carboxylate-based superplasticiser and then stir until a completely homogeneous mix is obtained.

MapeCube 60W has a slightly plasticising effect, for this reason it is recommended to mix the components with only 80% of the water required and then add the remaining water, after checking the final fluidity of the mix.

The use of **MapeCube 60W** is preferred when the surrounding temperature is lower than +15°C. However, in case of use in cold weather, it is advisable to take the following precautions:

- bring the components of the concrete mix to a temperature of more than +5°C;
- pouring concrete during the warmest hours of the day;
- do not cast concrete when temperatures fall below -10°C.

CONSUMPTION

Dosage by volume:

The recommended dosage ranges from 0.5 to 2 litres per 100 kg of cement, according to application temperature and mechanical performances to be reached.

Different dosages from those suggested must be previously tested through concrete trials, in addition to consulting MAPEI Technical Services Department.

STORAGE

Store **MapeCube 60W** for 12 months in closed containers. Protect from frost and sunlight.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.com

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:	homogenous liquid
Colour:	brown
Density according to ISO 758:	1.12 ± 0.03 g/cm ³
Main action:	mechanical strength enhancer with fluidifying effect
Classification according to EN 934-2:	water reducing admixture, tab. 2
pH according to ISO 4316:	10 ± 1
Water-soluble chloride content according to EN 480-10:	< 0.1% (absent according to EN 934-2)
Alkali content (Na ₂ O equivalent) according to EN 480-12:	< 7%

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

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