

Mapecube 60W [NA]

Cold-Weather Strength Enhancer for Concrete with Low CO₂ Emissions



NORTH AMERICA [NA]

FOR PROFESSIONAL USE ONLY

DESCRIPTION

Mapecube 60W [NA] is a liquid admixture that, by optimizing the hydration of cement phases, increases the strength of concrete and mortar at all ages. *Mapecube 60W [NA]* allows the designed strength of the concrete to be maintained with a significant reduction in cement dosage. With a lower cement dosage, *Mapecube 60W [NA]* guarantees lower CO₂ emissions associated with concrete production and therefore a lower environmental impact. *Mapecube 60W [NA]* is a set-neutral admixture and is therefore suitable for cold weather applications, as well as in concreting operations where fast, early hardening is required. *Mapecube 60W [NA]* meets or exceeds the requirements of ASTM C494 as a Type A and Type S admixture.

WHERE TO USE

Regardless of the type of binders and supplementary cementitious materials used, *Mapecube 60W [NA]* is particularly suitable for all types of concrete mixtures and applications, such as:

- Precast concrete.
- Ready-mix concrete.
- Slabs on grade.
- Paving.

MIXING/PRECAUTIONS

To achieve the best results, add *Mapecube 60W [NA]* to concrete containing a polyether-carboxylate-based superplasticizer. Mix until a completely homogeneous mix is obtained (in 3 to 5 minutes). Mix the components with 80% of mixing water and then add the remaining water, if needed, to achieve the desired consistency of the mixture.

Thanks to its set-time neutrality, *Mapecube 60W* [NA] is particularly recommended for use in cold weather. However, in such conditions, it is advisable to take the following precautions:

- Ensure that concrete materials are maintained at a temperature higher than 41°F (5°C).
- Do not mix and place concrete when the temperature is lower than 14°F (-10°C). Follow ACI guidelines to protect concrete from freezing.
- Keep the water/cement ratio as low as possible.
- Insulate and protect concrete from cold temperatures (below 41°F or 5°C) and premature evaporation.

DOSAGE RATES

The recommended dosage range is 4 to 15 U.S. oz. per 100 lbs. (0.25 to 1 L per 100 kg) of the total cementitious content, 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's Technical Services Department.

PACKAGING

Mapecube 60W [NA] is available in bulk, in drums measuring 55 U.S. gals. (208 L) and in totes measuring 275 U.S. gals. (1 041 L).

STORAGE

Mapecube 60W [NA] can be stored for 6 months in a closed container. Protect it from frost and prolonged exposure to sunlight.

Technical Data

Consistency	Homogenous liquid
Color	Brown
Density	1.12 (+/- 0.03)
pH per ISO 4316	10 ± 1
Water-soluble chloride content per EN 480-10	< 0.1% (absent per EN 934-2)
Alkali content (Na ₂ O equivalent) per EN 480-12	< 7%
ASTM C494	Type A and Type S

ADDITIONAL INFORMATION

Refer to the Safety Data Sheet for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA).

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 nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

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