

**E.M.ANTIFREEZE-M
COLD WEATHER MORTAR ADDITIVE****DESCRIPTION**

E.M.ANTIFREEZE-M is designed for producing cold weather mortar. The product combines actions of fast setting and preventing from freezing simultaneously as it accelerates the hardening of the mortar. It does not contain chlorides and other compounds which could cause corrosion of reinforcement.

ADVANTAGES

- Accelerates the progress of the thermal reaction of cement
- Accelerates the progress of the hydration reaction
- Accelerates the setting time of mortars
- Compatible with all types of Portland cement
- Chloride free

APPLICATION

- Producing mortars in cold weather conditions
- Suitable for all mortars in which setting and stiffening time is important

DOSAGE

The optimum dosage of E. M. ANTIFREEZE-M can be determined by trials in the site. Depending on ambient temperature a dosage of between 4.0 and 6.0 percent by weight of cement is recommended. Note: Decrease the mixing water by the same weight as quantity as the E. M. ANTIFREEZE-M. For use with other range of dosage, contact ABADGARAN Technical Services Department. Please contact our engineering office in case of simultaneously use of more than one admixture.

DIRECTION OF USE

E. M. ANTIFREEZE-M can be added to concrete in two ways:

- 1- E. M. ANTIFREEZE-M could be added to ready-mixed mortars.
- 2- E. M. ANTIFREEZE-M could be added to a part or whole of mixing water.

PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Color: Opaque white

Specific gravity: $1.03 \pm 0.05 \text{ g/cm}^3$

Chloride content: Nil to EN 934

STORAGE

Shelf life: 12 months in the original package

Storage condition: should be protected from direct sunlight and frost. Keep container in the temperature range between $+10^\circ\text{C}$ and $+30^\circ\text{C}$.

Packaging: 20 kg container



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HEALTH AND SAFETY

This product does not contain any hazardous substance to human health and the environment. However, it should not be swallowed and contacted with skin and eyes.

Rubber gloves, boots and goggles should be used during application. Accidental splashes on the skin should be washed with soap and water and any contaminated clothing removed.

Contact with eyes should be avoided and if any accidental contamination does occur they should be washed with copious amounts of water and medical attention sought.

ANTIFREEZE-M is not flammable.

For further information refer to the material safety data sheet. MSDS is available at ABADGARAN website.

TECHNICAL SERVICE

The ABADGARAN INTERNATIONAL GROUP Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

All data presented in this technical datasheet are based on our last researches in ABADGARAN CONSTRUCTION CHEMICALS laboratories and are just as a guide for choosing appropriate material. Therefore users should conduct a sufficient investigation to establish the suitability and conformity of any product for intended uses.



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