



E.M.AIR AIR-ENTRAINING ADMIXTURE

E.M.AIR is an air-entraining admixture for use in concrete and mortar. It is used to improve workability, cohesion, and durability of concrete and mortar by the ultra-stable air bubbles with appropriate size and spacing factor, uniformly distributed throughout the mixture.

E.M.AIR provides freeze thaw protection in cold climates.

E.M.AIR meets the requirements of the following standards:

ASTM C260, ASTM C666, ASTM C233, ASTM C457

EN934 **ISIRI 2930**

APPLICATION

- Workable and durable concrete for dams and reservoirs, tunnels, mass concrete structures, roads, runways, taxiways and etc.
- Air-entrained concrete in cold weather condition
- Pre-cast concrete sections

ADVANTAGES

- Increases freeze/thaw damage resistance
- Improves permeability and durability
- Improves harsh mixtures
- Improves concrete consistency (plasticity and workability)
- Cohesion of mixtures is improved and bleeding reduced
- Eliminates segregation
- Ready to use no dilution is required

DOSAGE

The rate of use of an air-entraining admixture depends on the air content (4-6 % typically) to be obtained along with many other factors.

The optimum dosage of E.M.AIR can be determined by trials in the site. Depending on concrete mix design (sizes and types of aggregates, cement content, water/cement ratio, ambient temperature and concreting conditions), a dosage of between 0.1 and 0.4 percent by weight of cement or cementitious material is recommended.

For use with other range of dosage, contact ABADGARAN GROUP Technical Services Department.

Please contact our engineering office in case of simultaneously use of more than one admixture.

DIRECTION OF USE

- 1- E.M.AIR could be added to a part of concrete mixing water then added to the concrete mixture.
- 2- E.M.AIR could be added to ready-mixed concrete before placing concrete.
- 3- Admixtures must be weighed carefully.

PHYSICAL AND CHEMICAL PROPERTIES

Physical state: liquid Color: Transparent Yellow

Specific gravity: 1.01±0.05 g/cm³

Solubility: Soluble in water

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Institute Membership

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CONSTRUCTION CHEMICALS MANUFACTURER



STORAGE

Shelf life: 1 year in the original package

Storage condition: should be protected from direct sunlight and frost. Keep container in

the temperature range between +10 and +30°C

Packing: 20 kg container

HEALTH AND SAFETY

This product does not contain any substances hazardous to human health and the environment. However, it should not be swallowed and allowed to be contact with skin and eyes. In case of contact with eyes rinse immediately with plenty of water. When applying gloves & goggles should be worn. E.M.AIR 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.







Tunneling Association



Iran Standard's Mark Iran Standard's Mark
Holders Association
TÜV NORD Iran PJS Membership





National Accreditation Center of Iran ISO / IEC 17025



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Ministry of Industry, Mine and Trade R & D Certificate

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