

EAMICRETE G 6000

Retarding & High Range Water Reducing / Superplasticizer Concrete Admixture

Product Description

EAMICRETE G 6000 is a high performance retarding and high range water reducing concrete admixture. It is formulated to produce high quality concrete in hot climates with good flowing properties and to improve early & ultimate concrete strengths with set retarding effect enabling long transportation of concrete. It reduces the concrete mixing water, so it improves all physical and mechanical properties of the concrete. After mixing with the concrete ingredients, it is adsorbed on cement particles. It is based on a selected synthetic polymer and manufactured under controlled conditions assuring consistent quality.

- Easier placing of concrete, compaction.
- Enable long transportation of concrete.
- Improves all the physical as well as the mechanical properties of the concrete.
- Improves surface finishes.
- Eliminates the risk of segregation, shrinkage, bleeding and creep.
- Provides high dense concrete and hence improving the waterproofing properties and protecting the concrete reinforcement from water borne soluble salts.
- Water-based, non-flammable, non-toxic, chloride-free and non-corrosive.
- Formulated to be suitable for the Middle East conditions.

Typical Applications

EAMICRETE G 6000 is formulated to be used as set retarding / Superplasticizer chemical concrete admixture to produce high quality concrete in hot climates with high early & ultimate strengths are required:

- Precast concrete elements in hot climates.
- Ready mixed concrete.
- Slabs, basements and foundations.
- Bridges and related structures.
- Large volume of concrete that is used in slip forming to prevent cold joint formation.

Product Features

- Reduces the mixing water of concrete.
- Improves workability without increasing the mixing water.

Standards

EAMICRETE G 6000 complies with all the requirements of the following standards as set retarding & water-reducing / plasticizing concrete admixture:

- ASTM C 494, Type D and G
- Egyptian Standard ES 1899 Part 1 Tables: 1, 10, 11.1 and 11.2
- EN 943 Part 2 Tables: 1, 10, 11.1 and 11.2

Dosage

Dosage is influenced by cement type, mix design, quality of used materials, ambient temperatures and specific requirements, so site trials should be carried out for determination of suitable dosage.

Dosage is approximately: 0.6 – 3.0 % by the weight of used cement.

Technical Properties

Appearance

Dark brown liquid

Specific Gravity

1.19 ± 0.005 at 25 °C.

Air-entrainment

Less than 0.5 % additional air is entrained.

Water-reduction

15 - 22 % at least reduction of mixing water

Setting Times

Both initial and final setting time will be retarded, this will be influenced by the cement type, mix design and ambient temperature.

Permeability

It improves waterproofing properties and durability.

Compressive Strength

It improves compressive strengths at all ages.

Compatibility

It is compatible with all types of Portland cement including Sulfate Resisting Cement. It is also compatible with our admixtures range, each should be added separately

Dispensing

EAMICRETE G 6000 should be added to the mixing water or directly to the mixed concrete. It shall not be added directly to cement or dry mix. For proper addition, automatic dispenser shall be used.

Overdosing

For any serious overdosing, slight increase of setting times will be increased. In this case, protect the concrete from the evaporation of mixing water.

Curing

After concrete placing, it shall cured properly as per as the recommendations of ACI. Our range of curing agents can be used (see separate Data Sheets).

Cleaning

All equipment & tool or splashes can be easily with water.

Packaging

EAMICRETE G 6000 is supplied in 20, 210 or 1000-liters.

Storage

EAMICRETE G 6000 shall be stored in normal conditions away from extreme temperatures.

Shelf Life

One year if stored properly in its original well closed container.

Health and Safety

- EAMICRETE G 6000 is non-flammable, non-toxic and non-corrosive.
- Splashes should be washed with water
- For ecology, follow the local regulations.
- It is not dangerous during transportation.

Warranty

We warrant our products to be of good quality & manufactured to rigid standards. This Warranty is in lieu of any & all other warranties expressed or implied. This data sheet is published for information only. It is believed to be correct but no liability is accepted for it or the suitability of the product for any particular purpose. EAMIC TRETOL services are free & the company does not accept liability for any loss arising from it. Max liability is limited to substituting the same quality of material.

EAMIC TRETOL

Leaders in Construction Chemical Technology

Tretol is a member of the  International Group of Companies

Edition 01.2019