

EAMICRETE G 4000

Retarding & High Range Water Reducing Concrete Admixture with Workability Retention

Product Description

EAMICRETE G 4000 is a liquid superplasticizer, high water reducing & retarding admixture. It is designed specially to provide high workability to concrete containing pozzolanic materials, while possessing excellent slump retention properties. It can be also used in normal concrete mix designs when high workability is required for a long period. EAMICRETE G 4000 is based on selected organic polymers and naturally derived products. It is manufactured under controlled conditions to produce a consistent quality product.

Typical Applications

EAMICRETE G 4000 is formulated as a superplasticizer & retarding compound for producing high quality concrete having extended workability in:

- Ready mixed concrete.
- Floor slabs & foundations.
- Mass concrete.
- All concreting works such as bridges, beams ... etc.
- When the pozzolanic materials such as BFS, FA and silica fume are used in concrete.

Product Features

- Extends workability and improving pumping properties.
- Improves all physical & mechanical properties.
- Increases both early and ultimate strengths.
- Retarding setting time enabling long transportation of the concrete in hot climate.
- Improves cohesion, minimizing segregation and improving surface finish.
- Increases water tightness.
- Eliminates shrinkage, bleeding, segregation and creep.
- Produces high dense and waterproofing concrete.
- Water-based: non-flammable and non-toxic.
- Chloride & nitrate free.
- Formulated for the Middle East climates.

Standards

EAMICRETE G 4000 as Retarding and High Range Water Reducing Concrete Admixture complies with all requirements of:

- ASTM C 494 Type G.
- EN 934 Part 2: Tables 1, 11.1 and 11.2
- ES 1899 Part 1: Tables 1, 11.1 and 11.2

Technical Properties

Appearance

Dark brown liquid.

Specific Gravity

1.18 ± 0.005 at 23°C.

Air Entrainment

Less than 1 %.

Chloride Content

Nil.

Compatibility

EAMICRETE G 4000 is compatible with all types of Portland cements including SRC. It is compatible with other EAMIC Tretol. Admixtures provided that the two admixtures are added separately to the mix. Please consult our technical department when prior to mixing.

Permeability

Reduces porosity hence increases waterproofing properties and resistance to water borne salts.

Setting Times

Initial and final setting times will be delayed.

Water Reduction

12 - 20 % reduction can be achieved. This will be influenced by mix design, cement type and ambient temperature.

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Dosage

The dosage will depend upon the cement type, mix design, quality of used materials and ambient temperature. Site trials should be carried out to determine the suitable dosage. Approximate range will be 0.60 – 2.50 % by the weight of used cement.

Dispensing

EAMICRETE G 4000 should be added to the mixing water prior to addition to the dry mix or directly to the fresh concrete. It should not be added to the dry mix.

Overdosing

Overdose will increase setting times of concrete.

Packaging

EAMICRETE G 4000 is supplied in 210 Liters drums or 1000 Liters containers.

Storage

EAMICRETE G 4000 should be stored in normal conditions away from any extreme temperatures. Store in a temperature between 5 - 35°C.

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.

Cleaning

Clean any spillages with normal water.

Shelf Life

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

Health and Safety

- EAMICRETE G 4000 is non-toxic, non-flammable and non-toxic.
- Any splashes on skin should be washed with water.
- Seek medical assistance in case of contact with eyes, after washing it with running water.

EAMIC TRETOL

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