

EAMICRETE G 8000

High Performance, Retarding & High Range Water Reducing Concrete Admixture with Workability Retention

Product Description

EAMICRETE G 8000 is retarding & high-range water reducing concrete admixture for tropical conditions & hot concreting. It is formulated to produce high concrete properties with extended workability and for use with pozzolanic materials: silica fumes, PFA, Slag ... etc.

It is based on high performance polymers that well disperse cement particles that tend to agglomerate, enabling the mixing water to perform more efficiently and contains materials that produce high early strength concrete after final setting.

Typical Applications

EAMICRETE G 8000 is formulated to be used as retarding & high range water-reducing concrete admixtures with workability retention to:

- Provide an excellent water reduction with very good workability & workability retention.
- Provide an excellent early development as well as ultimate strengths.
- Retard both initial and final setting times, suitable for long distance transportation.
- Improve & extend workability life without addition of water.
- Improve durability and reduce its concrete permeability.
- To be used with pozzolanic materials: Silica Fumes, PFA, and Slag.

- Ready mix and pumped concrete.
- Pre-cast & Pre-stressed concrete.
- Bridges, ceilings, beams, floorings ... etc.

Product Features

- Improves workability.
- Enables reduction of cement content.
- Improves the early strengths after setting.
- Eliminates the risk of segregation, bleeding and creep.
- Increases mix cohesion.
- Improves durability and reduces permeability.
- Improves surface finishes.
- Water-based: non-flammable, non-toxic and does not contain any harmful ingredients.
- Chloride and nitrate free.
- Formulated for the Middle East Climates.

Standards

EAMICRETE G 8000 is formulated to comply with all requirements of: ASTM C 494 Type G EN 934 Part 2.

Technical Properties

Appearance

Dark brown liquid.

Specific Gravity

1.195 ± 0.005 at 23°C.

Air Entrainment

1 % additional air (maximum).

Chloride Content

Nil.

Compatibility

EAMICRETE G 8000 is compatible with all types of Portland cements including SRC. Also, it is compatible with other EAMIC Ltd. admixtures provided that the two admixtures are added separately to the mix Please consult our technical department when mixing.

Permeability

Improves waterproofing properties and resistance to water & water borne salts.

Setting Times

Initial and final setting times will increase. This will be influenced by dosage, cement type, mix design and ambient temperatures.

Water reduction

20 – 30% of mixing water can be reduced.

Cohesion

The cohesion of the cement matrix will be increased.

Mechanical Properties

Compressive strength at early & ultimate strengths, flexural strengths, tensile strength will be improved.

EAMICRETE G 8000

Dosage

The dosage will be influenced with the mix design, cement content & type, quality of used materials, ambient temperatures. Site trials should be carried out to determine the accurate dosage.

Approximately, the dosage is 0.8 – 3.0% by the weight of cement. Please consult EAMIC Tretol Technical Department on dosage when using Sulphate Resistance Cement.

Dispensing

The accurate quantity should be measured by means of a suitable dispenser.

Normally, EAMICRETE G 8000 should be added to the concrete with the mixing water to achieve the best results.

Overdosing

Any serious overdosing will result more workability, more air-entrainment and setting times.

The concrete should be protected from the drying out by any suitable means.

Curing

The concrete after placing should be cured properly by suitable means. EAMICURE Range can be used for this purpose.

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.

Packaging

EAMICRETE G 8000 is supplied in 210 liters drums or 1000 liters containers.

Storage

EAMICRETE G 8000 shall be stored in normal conditions away from any extreme temperatures and away from direct sunlight.

Cleaning

Clean the tools & equipment or spillages with normal water.

Shelf Life

18 months if stored properly in its original well closed container.

Health and Safety

- EAMICRETE G 8000 is water-based, non-flammable, non-toxic, and does not contain any harmful ingredients.
- Any contamination of skin can be removed with normal water.
- For disposal follow the local regulations.

EAMIC TRETOL

Leaders in Construction Chemical Technology

Tretol is a member of the  International Group of Companies

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