

EAMICRETE G 8500

High Performance Retarding & High Range Water Reducing / Super Plasticizing Concrete Admixture with Workability Retention

Product Description

EAMICRETE G 8500 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 such as silica fumes, PFA, Slag ... etc. It is based on high performance polymers that will 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 8500 is formulated to be used as high performance retarding & high range water-reducing concrete admixtures with workability retention to:

- Provides an excellent water reduction with very good workability & workability retention.
- Provides excellent early and ultimate strengths.
- Retards both initial and final setting times.
- Improves the workability & extending the workability life without addition of extra water.
- Improves the durability and reducing the permeability.
- To be used with pozzolanic materials: Silica Fumes, PFA and Slag where water reduction and physical & mechanical properties need to improve.

So, EAMICRETE G 8500 is suitable to be used in concreting:

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

Product Features

- Improves workability with water-reduction.
- 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 8500 is formulated to comply with all requirements of the following standards:

- 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
- ACI Recommended.

Technical Properties

Appearance

Dark brown liquid.

Specific Gravity

1.2 ± 0.005 at 23°C.

Air Entrainment

0.5 % additional air (maximum).

Chloride Content

Nil.

Permeability

Waterproofing properties will improve, hence the resistance of water & water borne salts will increase.

Water-reduction

20 – 30 % of mixing water can be reduced. The durability will also increase.

Compatibility

EAMICRETE G 8500 is compatible with all types of Portland cements including Sulphate resisting Cement.

It is compatible with all types of EAMIC admixtures, provided that each admixture should be added separately.

Cohesion

The cohesion of the matrix will increase.

Mechanical Properties

All the mechanical properties: compressive strength at early & ultimate strengths, flexural strengths, tensile strength will improve.

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Guide for Applications

Dosage

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

Approximately, the dosage is 0.5 – 3.0 % by the weight of cement.

Dispensing

The accurate quantity should be measured by means of a suitable dispenser. Normally, EAMICRETE G 8500 should be added to the concrete with the mixing water to achieve the best results.

Overdosing

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

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

Curing

After placing concrete, it 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 8500 is supplied in 20 liters, 210 liters, and 1000 liters upon request.

Storage

EAMICRETE G 8500 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 8500 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

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