

EAMIFLUID PCE190

High Performance, High Range Water Reducing / Superplasticizing concrete admixture

Product Description

EAMIFLUID PCE190 is a high performance, high range water-reducing concrete admixture. It is formulated to produce high concrete properties with high short & long term compressive strength. It is based on the third generation high performance sodium Polycarboxylate ether polymers that well disperse cement particles that tend to agglomerate, enabling the mixing water to perform more efficiently.

- Enables cement saving.
- Excellent self-compacting behavior.
- Improves early strengths.
- Eliminates risk of segregation, bleeding and creep.
- Increases mix cohesion.
- Improves durability and reduces permeability.
- Reduces rate of concrete carbonation.
- Improves surface finishes.
- Chloride and nitrate free.
- Enables very low w/c ratios to be achieved.

Typical Application

EAMIFLUID PCE 190 is formulated to be used as high range water-reducing concrete admixtures with high workability:

- Precast and pre-stressed concrete.
- High strength floor screed without any risk of segregation or bleeding.
- Hot weather concreting.
- Self-compacting concrete
- Bridges, ceilings, beams, floorings ... etc.

Product Features

- Reduce time before demoulding.
- Decrease steam curing temperature or time.
- Excellent water reduction up to 40 %

Standards

EAMIFLUID PCE 190 is formulated as high range water reducing chemical admixture for concrete to comply with all requirements of the following standards:

- ASTM C 494 Type F.
- EN 934 Part 2: Tables1, 3.1 and 3.2
- ES (Egyptian Standard)1899-1 Tables 1, 3.1 and 3.2

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. Dosage range: 0.5 - 2.50 % by the weight of cement.

Technical Properties

Appearance	Amber liquid.
Specific Gravity	1.06 ± 0.01 at 20 °C.
Air entrainment	0.5% additional air.
pH value	5 - 7
Chloride Content	< 0.01 %
Setting Times	Setting times will not be affected at the recommended dosage
Permeability	Waterproofing properties will be improved, increasing resistance to water & water borne salts.
Water reduction	30 - 40 of mixing water can be reduced.
Compatibility	EAMIFLUID PCE190 is compatible with all types of Portland cements including Sulphate resisting Cement. It is compatible with all types of our admixtures, but each should be added separately.
Cohesion	The cohesion of the matrix will be increased.
Mechanical Properties	All the mechanical properties: compressive strength at early & ultimate strengths, flexural strengths, tensile strength will be improved.

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Dispensing

The accurate quantity should be measured by means of a suitable dispenser.
Normally, EAMIFLUID PCE190 should be added to the concrete with the mixing water to achieve the best results. It should not be added directly to the dry cement or aggregate, it should be always added to the wet mix.

Curing

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

Cleaning

Clean the tools & equipment or spillages with normal water.

Packaging

EAMIFLUID PCE190 is supplied in 20 liters, 210 liters, and 1000 liters upon request.

Storage

EAMIFLUID PCE190 shall be stored in normal conditions away from any extreme temperatures and away from direct sunlight.

Shelf Life

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

Health and Safety

- EAMIFLUID PCE 190 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.
- For any more details, please refer to the MSDS

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.

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