

EAMIFLUID PCE180

High Performance, High Range Water Reducing Concrete Admixture

Product Description

EAMIFLUID PCE180 is a high performance, high range water reducing concrete admixture .It is based on the third generation high performance sodium Polycarboxylate ether polymers that will disperse cement particles that tend to agglomerate, enabling the mixing water to perform more efficiently, to produce high concrete properties with high short & long term compressive strength.

Typical Application

EAMIFLUID PCE 180 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 demoulding time.
- Decrease steam curing temperature time.
- Excellent water reduction up to 40 %
- 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.

Standards

EAMIFLUID PCE 180 is formulated as high range water reducing chemical admixture for concrete to comply with all requirements of ASTM C 494 Type F, EN 934 Part 2: Tables1, 3.1 and 3.2 and Egyptian Standard ES 1899 Part 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.

Dispensing

The accurate quantity should be measured by means of a suitable dispenser. Normally, EAMIFLUID PCE180 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.

Technical Properties

Appearance	Light brown liquid.
Specific Gravity	1.07 ± 0.01 at 20 °C.
Air entrainment	0.5% additional air.
pH value	4 - 7
Chloride Content	Nil.
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 PCE180 is compatible with all types of Portland cements including Sulphate resisting Cement. It is compatible with all types of our admixtures, subject 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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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 PCE180 is supplied in 20 liters, 210 liters, and 1000 liters upon request.

Storage

EAMIFLUID PCE180 shall be stored in normal conditions away from any extreme temperatures and away from direct sunlight.

Shelf Life

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

Health and Safety

- EAMIFLUID PCE 180 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.

EAMIC TRETOL

Leaders in Construction Chemical Technology

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