

ERO FLO- G 200

Very High Range Water-Reducing and Slump Retaining Concrete admixture.

Product Description

ERO FLO- G 200 is a high effective super plasticizer for producing free flowing concrete, manufactured from a naphthalene sulfonate polymer combination specially designed to impart a fluid concrete easily flowing, a substantial water reducing agent for promoting high early and ultimate strengths.

ERO FLO- G 200 is suitable for use with all types of ordinary Portland cements, sulfate resisting Portland cement and pozzolanic materials such as PFA and Micro silica. This product is suitable for tropical and hot climatic conditions.

Advantages

- Improve workability without increased water content.
- Compressive strength improved up to 40% at maximum possible water reduction.
- Lower pumping pressure.
- Very high-water reduction.
- Higher ultimate strengths.
- Improve workability retention.
- Improve cohesion of the concrete mix concrete mix reduces significantly the risk of segregation and allows greater time for placement.
- Reduced permeability.
- Non-toxic.
- Chloride free.

Uses

ERO FLO- G 200 is suitable for use as a super plasticizer in the production of free-flowing concrete with high slump more than 200 mm and good retardation free of bleeding and segregation such as :

- slabs , foundations, walls, columns and piers .
- self-compact concrete.

It also used as a water reducing agent of production of high early strength concrete such as:

- Precast concrete, pre- stressed concrete, bridges and cantilever structures.

Packaging

20 liter jenkins, 210 liter drums, 1000 liters Bulk Tanks.

HEADQUARTERS : 343 Gamal Abd Elnaser Street, Next to Alasafra Gas.

Factory : Al-Ghafoor Al-Rahim Mosque Street, behind Abu Sitta, Merghem Industrial Area.

Phone: 035526119 **Mobile:** 01032093209 – 01557893209 – 01557493209

Email: ERMA INNOVA@gmail .com

www.erma-egy.com

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Product Properties

Consistency	Liquid
Color	Dark brown
Specific Gravity according to ASTM D 2111 (g/cm ³) @25° C	1.22 ±0.02
PH	>6
Main action	Water reduction & Retarding of initial hydration, retention of workability.
Collateral action	Retarding of initial setting time, workability retention
Classification according to EN 2-934	Set retarding/high range water reducing/ super plasticizing admixtures, T 11.1 / 11.2
Classification according to ASTM C494	Type G , F
Classification according to ASTM C1017	Type II
Water reduction	≥12 % according to EN 934-2 to almost 17%
Chlorides soluble in water according to EN 480-10 (%)	≤ 0.1 (absent according to EN 934-1)
Alkali content (Na ₂ O equivalent) according to EN 480-12 (%)	< 55 g
Nitrate content	Nil

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Specification Compliance

- EN 934-2 T 11.1 / 11.2.
- ASTM C 494: Type G.
- EN 480-10.
- EN 480-12.
- ASTM D 2111...

Dosage

Dosage is 0.5 – 3.5 liter/100kg of cement @ 25° C, including any pozzolanic materials and cement replacements.

The actual dosage rates and water reduction rate are dependent on the :

- 1- Cement rate in mix design.
- 2- Quality of cement & aggregates.
- 3- Water/Cement-ratio.
- 4- Ambient temperature (Weather).

Therefore, it is advisable to carry out trial mixes.

Dosages outside this range can be used to produce particular mix requirements, provided that extensive trial mixes and laboratory have been conducted

Overdosing

When accidental overdosing occurs will result in:

- Increase in workability.
- Initial and final set retarding.
- Increase in air-entrainment.

APPLICATION PROCEDURE

add **ERO FLO- G 200** into the mixer after mix the other Ingredients (water ,cement , aggregates)

ERO FLO- G 200 is most effective if added when cement and aggregate granules are already wet, and least effective when the admixture is mixed with dry solids which partially absorb it (especially if porous). It is advisable to begin adding the admixture with an automatic dispenser after adding at least, half of the batching water required.

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Compatibility

ERO FLO- G 200 is compatible with a wide range of admixtures used in the same concrete mix. All admixtures should be added to the concrete separately and must not be mixed together prior to addition.

The resultant properties of concrete containing more than one admixture should be assessed by trial mixes.

Clean Up

Clean up spillages of by absorbing onto sand and transferring to suitable containers. Any residue should be washed down with large quantities of water. The disposal of excess or waste material should be carried out in accordance with local regulations.

Shelf Life

ERO FLO- G 200 has a minimum shelf life of 12 months under shaded area. Must be protected from direct sunlight and frost.

Dispensing

ERO FLO- G 200 should be added to the concrete while being mixed using a suitable dispenser. Add to the concrete with the mixing water to obtain best results.

Health and Safety

This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product

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