

ERO MIX- F100

High performance superplasticising and workability retention admixture

Description

EROMIX F100 is a chloride free, superplasticising admixture based on selected sulphonated naphthalene polymers supported with other polymers. It is supplied as a brown solution which instantly disperses in water.

EROMIX F100 disperses the fine particles in the concrete mix, enabling the water content of the concrete to perform more effectively.

Uses

- To provide excellent acceleration of strength at early ages and major increases in strength at all ages by significantly reducing water demand in a concrete mix.
- Particularly suitable for high performance concrete containing cement replacement products such as PFA, GGBFS and micro-silica and low water/cement ratio.
- To significantly improve the workability of site mixed and pre-cast concrete without increasing water demand.
- To provide improved durability by increasing ultimate strengths and reducing concrete permeability.

Advantages

- Makes possible major reductions in water/cement ratio which allow the production of high performance concrete.
- Increased workability levels are maintained longer than with ordinary sulphonated melamine admixtures.
- Use in production of flowing concrete permits easier construction with quicker placing and compaction and reduced labour costs without increasing water content.
- Improved cohesion and particle dispersion minimizes segregation and bleeding and improves pumpability.
- Chloride free, safe for use in pre-stressed and reinforced concrete.

Packaging

20 liter jerrys, 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	1.16 ±0.02
Classification according to ASTM C494	Type A, F and G depending on dosage used.
Alkali content	Typically less than 72.0 g Na ₂ O equivalent/litre of admixture. A fact sheet on this subject is available.
Chloride content	Nil to BS 5075
Air entrainment	Typically less than 2% additional air is entrained at normal dosages.
Nitrate content	Nil

Technical support

- **RRMA** provides a technical advisory service for on-site assistance and advice on mix design, admixture selection, evaluation trials and dispensing equipment

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Standard Compliance

EROMIX F100 complies with BS5075 Part 3 and with ASTM C494 as Type A, F and G depending on dosage used.

Typical dosage

The optimum dosage of **EROMIX F100** to meet specific requirements should always be determined by trial mixes using the materials and conditions that will be experienced in use.

For high strength, water reduced concrete the normal dosage range is from 0.7 to 2.0 liters per 100 kg of cementitious material, including PFA, GGBFS and microsilica.

For high workability concrete the normal dosage range is 0.7 to 2.5 per 100 kgs of cementitious material.

Overdosing

When accidental overdosing occurs will result in:

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

APPLICATION PROCEDURE

add **ERO MIX –F100** into the mixer after mix the other Ingredients (water, cement, aggregates)

ERO MIX –F100 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.

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.

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Shelf Life

ERO MIX-F100 has a minimum shelf life of 12 months under shaded area. Must be protected from direct sunlight and frost.

Dispensing

ERO MIX-F100 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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