TECHNICAL DATA SHEET
Concrete Waterproofing & Admixture

ERO Mix- G 50

Set Retarding / High Range Water-Reducing Admixture

Product Description

ERO MIX –G50 is effective super plasticizer with a set retarding effect for producing free flowing concrete in hot climates, manufactured from blend of high grade synthetic polymers.
ERO MIX –G50 is suitable for use with all types of ordinary Portland cements, sulfate resisting Portland cement and pozzolanic materials such as PFA and cement replacement..

Advantages

- Increased workability retention.
- Improves compressive strength at all ages.
- Delayed setting with longer workability.
- Reduces cement content.
- Enhances durability.
- Improves cohesion of mixes with poorly graded sands.
- Improves permeability.
- Improves compaction.
- Improves surface finish..

Uses

ERO MIX –G50 is suitable for use in the following condition:

- Pre-stressed concrete.
- Ready-mixed concrete.
- High quality and watertight concrete.

The product improves the effectiveness of the water content of a concrete mix by reducing surface tension

Packaging

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

Shelf Life

ERO MIX –G50 has a minimum shelf life of 12 months under shaded area. Must be protected from direct sunlight and frost.

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/cm³) @25° C	1.15±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 ASTMC494	Type D
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_2O 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 D.
- EN 480-10.
- EN 480-12.
- ASTM D 2111...

Dosage

Dosage is 1.0 – 1.50 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 MIX –G50** into the mixer after mix the other Ingredients (water,cement,aggregates)
ERO MIX –G50 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 MIX –G50 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.

Dispensing

ERO MIX –G50 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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