

ERO FLO 4000

High performance Polycarboxylic technology-based superplasticizer

Product Description

ERO FLO 4000 is based on a unique carboxylic ether polymer with long lateral chains. This greatly improves cement dispersion. At the start of the mixing process an electrostatic dispersion occurs but the presence of the lateral chains, linked to the polymer backbone, generate a steric hindrance which stabilises the cement particle's capacity to separate and disperse. This mechanism considerably reduces the water demand in flowable concrete.

Primary Uses

- developed for use in high performance concrete where increased early and ultimate compressive strength is required.
- Specially designed for self-compacting concrete.
- Pre-cast concrete.

Advantages

- Increased early and ultimate compressive strength.
- Increased flexural strength.
- Improved adhesion to reinforcing and stressing steel.
- Better resistance to carbonation.
- Lower permeability.
- Better resistance to aggressive atmospheric conditions.
- Reduced shrinkage.
- Increased durability.

Packaging

Supplied in 210ltr drums or 1000 bulk deliveries available on request.

Dosage

The optimum dosage of **ERO FLO 4000** to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use.

The normal dosage range is between 0.5 to 3.0 litre per 100 kg of cementitious materials.

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

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www.erma-egy.com

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Product Properties

Consistency	Liquid
Color	Light yellow coloured liquid
pH value:	6.5
Volumetric mass:	1.08 kg per litre at 20°C
Chloride content:	< 0.1%
Alkali content:	Typically less than 1.5 gm Na ₂ O equivalent per litre of admixture

Instructions for use

Compatibility

ERO FLO 4000 should not be used in conjunction with any other admixture unless prior approval is obtained from local **ERMA** office.

ERO FLO 4000 is suitable for use with all types of Portland cements, OPC, SRC cements and cement replacement materials such as PFA, GGBFS and micro-silica.

Mixing

When used at the mixing plant, **ERO FLO 4000** should be added in the mixing water.
In some instances, e.g. addition to ready mix concrete on site, **ERO FLO 4000** can be added directly in the truck mixer and mixed at maximum speed for an extra 5 to 10 minutes till a proper mixing is achieved.
For self-compacting concrete, a viscosity enhancer e.g. **ERO FLO 4000** is recommended at a dosage between 1.0 to 4.0 litre per cubic metre.

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Dispensing

The correct quantity of **ERO FLO 4000** should be measured by means of a recommended dispenser. The admixture should then be added to the concrete with the mixing water to obtain the best results. Contact **ERMA** for advice regarding suitable equipment and its installation.

Storage

ERO FLO 4000 has a minimum shelf life of 12 months provided the temperature is kept within the range of 20°C to 50°C. Should the temperature of the product fall outside this range then contact **ERMA** for advice.

Health and safety

ERO FLO 4000 does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes.

Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - Do not induce vomiting.

Fire

ERO FLO 4000 is water based and non-flammable

Cleaning and disposal

Spillages of **ERO FLO 4000** should be absorbed onto sand, soil or vermiculite and transferred to suitable containers.

Remnants should be hosed down with large quantities of water.

The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

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