

EPOCON SP 1000

High Range Water Reducing, Super Plasticizer Concrete Admixture



DESCRIPTION

EPOCON SP 1000 is high range water reducing super plasticizer concrete admixture.

CHARACTERISTICS

Owing to its binder composition **EPOCON SP 1000** increases early and final strengths of the concrete. It promotes excellent dispersion of the particle in cement resulting in a major improvement of workability.

APPLICATIONS

EPOCON SP 1000 is used as super plasticizer for ready mix concrete and precast industry, at dams, viaducts, bridge supports. It is particularly recommended for high performance concrete and highly reinforced concrete. Bridges, viaducts, turbo generators, the raft foundation of structures such as harbors, industrial grounds, airports, on the structures that concrete exposed to the corrosive effects and bridge beams with narrow sections without any risk of segregation.

USAGE

Mix cement (and pozzolanic materials), sand aggregate and 50-70% of mixing water until a homogenous mixture is obtained; **EPOCON SP 1000** is poured into the concrete mix after the addition of the first 50-70% of the mixing water. It is important that the mixing period should be sufficiently extended for the complete dispersion throughout the mix. **EPOCON SP 1000** is added to the remaining mixing water until required workability and homogenous mixture are obtained.

COMPATIBILITY

EPOCON SP 1000 can be used in all types of Portland cement, sulfate resisting cement and supplementary cementitious materials. **EPOCON SP 1000** should be dispensed directly into the mixer and should not be pre-mixed with other admixtures.

If other admixtures are to be used in concrete containing **EPOCON SP 1000**, then they must be dispensed separately.

CONSUMPTION

EPOCON SP 1000 is used in a range of 0.60 Kg to 3.0 Kg/100Kg of the cementitious material weight (Depending on climatic conditions, proportioning and other components of the concrete)

TECHNICAL SPECIFICATION

Test Name	Average Result
Chemical Composition	Melamine Formaldehyde Sulphonate
Form	Liquid
Colour	Colourless
Specific Gravity	1.12 ± 0.01 (20°C)
pH	8.0 ± 1.0
Chloride content%	< 0.1
Freeze harm	Complete Stir or agitate the container before use
Freeze temperature	0°C
Boiling point	100°C
Odor	Mild odor
Toxicity	None
Flammability	None
Clean-up	Water
Fumes during treatment	Slight
Environmental Hazards	None
Air Entrainment	Up to 2.0% depending on dosage rate and concrete proportioning.



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Ver 01/20

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REMARKS

Usage dosages stated here under were obtained in laboratory conditions; they may change depending on the characteristics of other components, ambient conditions and water/cement ratio. Therefore, it is recommended that designs and tests should be conducted at sites using preliminary mixture ratios.

RELEVANT STANDARDS

ASTM C 494 Type F, BS 5075 Part 1, BS EN 934 Part 2 (TS EN 934-2)

PACKING

Plastic jerry can (30Kg), Drums (250Kg), Bulk (storage tanks can be provided for Bulk use)

SHELF LIFE

12 months indoors, without opening original package. The product should be stored in a cool, dry storage. Do not store at temperatures below 10°C or in direct sunlight.

TECHNICAL INFORMATION

Typical Engineering Data: The following data using **EPOCON SP 1000** was developed under laboratory conditions and according to ASTM C 494/10a limits Type F.

Mix Design:

Cement content (OPC) 307 Kg/M³
Coarse aggregate 30%
Fine aggregate 70%

Properties	Specification % of Control	EPOCON SP 1000
Compressive Strength vs. Control 100%		
1 day	140 %	> 150 %
3 days	125 %	> 130 %
7 days	115 %	> 120 %
28 days	110 %	> 115 %

SAFETY PRECAUTIONS

As with all construction chemical products, adequate precautions and care must be taken during usage and storage. Avoid direct contact with foodstuff, eyes, skin, and mouth. Keep away from children and animals. Any direct contact with skin, eyes, etc. should be washed thoroughly with clean running water and soap. Use proper safety wear, goggles, and mask, etc.

TECHNICAL ASSISTANCE

EPO GULF SPECIALITIES; technical department with its highly trained and qualified Chemicals Marketing Advisory team provides a complete service in the field. Please consult your nearest service/sales department for assistance. Field services where provided, do not constitute any supervisory responsibilities.

NOTICE

The information given in this publication is based on present state of our knowledge. Any recommendations and suggestions are made without guarantee since the conditions and procedures are beyond our control. Buyers and users should make their own assessment of our product under their own conditions and for their own requirements

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