

DESCRIPTION

EPOCON RAPID 1 is a chloride free, ready to use liquid accelerating admixture based on selected chemicals for use in concrete and mortar which brings down setting times in general and especially under cold weather, leading high early strength .It is supplied as pale yellow to transparent liquid which is instantly dispersible in water.

TYPICAL APPLICATIONS

To accelerate the setting and early strength gain of Portland cement concrete and mortar mixes without the introduction of chloride. It act as a set Accelerator, so gives significant increases in both ultimate and early strengths. Typical applications include:

- Precast concrete production
- Concrete pavement repairs
- Cold weather concreting
- Early de-shuttering in cold weather

ADVANTAGES

- Chloride free, safe in pre-stressed and reinforced concrete
- Produces exceptionally high early strengths & early de-shuttering.
- Suitable for bricklaying mortar mixes
- Early setting improves frost resistance
- Particularly effective in concrete at low temperatures

COMPATIBILITY

EPOCON RAPID 1 can be used in all types of Portland cement, sulfate resisting cement and supplementary cementitious materials. **EPOCON RAPID 1** 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 RAPID 1**, they must be dispensed separately and In-house trials should be conducted to check performance and compatibility.

TECHNICAL SPECIFICATION

Test Name	Average Result
Form	Liquid
Colour	Transparent
Specific Gravity @ 20°C	1.470 ± 0.03
pH @ 25°C	8 - 10
Chloride content %	Nil
Consumption	0.5 – 1.2 Liter/ 100 kg of Cement.
Shelf life	12 months indoors, without opening original package



CONSUMPTION

EPOCON RAPID 1 admixture is used in a range of 0.5 Liter to 1.2 Liter per 100 kg of cement material at temperature between 5°C to 20°C. Higher dosages may be required when certain combinations of materials and conditions are present or acceleration is required at colder climatic conditions. We recommend casting of concrete within 30 to 40 min after mixing with Accelerating Admixture **EPOCON RAPID 1**.

*Note: - Optimum dosage of **EPOCON RAPID 1** should be determined with trial mixes.

EPOCON RAPID 1

Set Accelerating Admixture for Concrete & Mortar



SETTING TIME & STRENGTH

The addition of **EPOCON RAPID 1** in the recommended amounts will reduce the initial setting time of concrete by 25 to 40 % and the final setting time proportionally. As a result the time to finishing will be substantially reduced.

By increasing the rate of hydration of the cement, **EPOCON RAPID 1** increases the rate of strength development of cement mixes. For example, it is not uncommon to obtain normal 3 day strengths in 1 day or normal 7 day strengths in 3 days.

A variable dosage is given for **EPOCON RAPID 1** when used in concrete in order to compensate for differences in materials and mix designs throughout the gulf and variable winter temperatures.

REMARKS

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

RELEVANT STANDARDS

BS 5075, ASTM C 494: Type C, BS EN 934-2

PACKING

Plastic jerry can (20 Liter) & Bulk (1000 Liter)

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.

*Mix well before use.

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.

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.

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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