

SG-100R

Q-MAX™ RETARDER

DESCRIPTION

Q-MAX™ Retarder is a highly efficient admixture which is a modified Polycarboxylic Ether (PCE) & Sodium Gluconate mix.

USES

Q-MAX™ Retarder SG-100R is used as a retarding admixture in structural and mass concrete where a controlled extension of setting time is required, such as:

- Large volume pours
- Avoidance of cold joints
- Construction joints without formwork
- Long hauls
- Difficult placing conditions
- Elevated temperatures

CHARACTERISTICS / ADVANTAGES

- Controlled extension of setting times
- Q-MAX™ Retarder SG-100R does not contain chlorides or other ingredients promoting corrosion of steel reinforcement. It is therefore suitable for reinforced concrete structures.

OPTIMIZATIONS / APPROVALS

- Conforms to EN 934 Part 2.
- KS F 2560
- ASTM C-494 Type B, D & G
- EN 934-2: T3.1/3.2
- IS 9103

PRODUCT INFORMATION

Chemical Base	Polycarboxylic Ether (PCE) & Sodium Gluconate mix
Packaging	SG-100R is supplied 250kg/Drum or Tank Lorry.
Appearance / Color	Light Brown
Shelf Life	Twelve (12) months from date of manufacture if stored correctly
Storage Conditions	Store free from frost and between +5°C and +35°C.
Specific Gravity	1.11 g/cm ³ @ 20°C
Total Chloride Ion Content	Nil

TECHNICAL INFORMATION

Effect on Setting	Initial set time lengthened. Accelerated hardening after set commences.
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APPLICATION

Recommended Dosage	0.3 – 3.0% by weight of cement (270 – 2,700 ml for 100 kg cement) The retardation rate achieved is directly dependant on the dosage rate which in turn is influenced by quality of cement, aggregates, w/b ratio and temperatures.
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Effects of Overdosing

Dosages above the recommended limits may cause excessive retardation, but ultimate strengths aren't affected negatively. During this period the concrete must be kept moist in order to prevent premature drying out.

Compatibility

Q-MAX™ Retarder SG-100R is compatible with other Q-MAX™ admixtures. Always conduct trials first and add Q-MAX™ Retarder SG-100R separately, do not premix.

Dispensing

INSTRUCTIONS FOR USE: Preferably add Q-MAX™ Retarder SG-100R into the concrete after the cement, water and other components have been mixed and wetted. Do not pour Q-MAX™ Retarder SG-100R onto dry cement.

IMPORTANT NOTES:

- Q-MAX™ Retarder SG-100R must not be used with setting or hardening accelerator admixtures
- Retarded concrete must be protected from early age moisture evaporation or dehydration, since water must be present for cement hydration when the chemical retarding action stops. We recommend the use of Q-MAX™ Film evaporation retardant and Q-MAX™ Curing Compounds for this purpose (refer to the separate Q-MAX™ Film and Q-MAX™ Curing technical datasheets for further information).

All data stated in this Technical Datasheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. The technical information and application advice given in the Q-MAX Global Co. (BD) Ltd. technical data sheet are accurate which are based on the present state of our best scientific and practical

knowledge. However, as conditions of use and any labor involved are beyond our control, the end user must satisfy himself by prior testing that the product is suitable for his specific application, and no responsibility can be accepted. or any warranty give by our Representatives.

TECHNICAL SERVICES

Q-MAX™ Customer Service Department has a team of experienced advisors available to provide on-site advice both at the specification stage and during application. Detailed specifications can be provided for specific projects or more general works. Site visit and on-site demonstrations can be arranged on request.

SALES SERVICES

Q-MAX™ products are distributed throughout Bangladesh via selected distributors and dealers. Please contact the relevant Sales team for all product orders and enquiries.



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