Roka ASR Resist

Admixture to Resist Alkali Silica Reaction in Concrete

Roka ASR Resist is a lithium-nitrate based admixture designed to control alkali silica reaction in high alkali concrete.

Uses & Advantages:

- Easy to use
- Minimizes delirious expansions in concrete due to ASR.
- Increases durability and span life of the concrete structure.
- Compatible with other Roka admixtures and appropriate pozzolans.

Fields of Application:

Roka ASR Resist can be used in concrete produced using aggregates which can potentially take part in alkali-silica reaction. The Alkali-Silica Reaction (ASR) is a chemical process where alkali hydroxides in concrete react with reactive silica in aggregates, forming a gel that swells in moisture, causing cracks. The main alkali source is Portland cement. Adding Roka ASR Resist prevents this swelling by forming a stable gel that resists expansion, protecting the concrete from cracking.

Technical Information:

Color	Dark Brown
Consistency	Liquid
Specific Gravity	~1.2
Chloride Content	Nil
Shelf Life	12 months if kept in recommended conditions
Storage Conditions	Store in dry warehouse conditions between temperatures 10^{O}C to 27^{O}C

Dosage:

The dosage of Roka ASR Resist depends on the alkali content of the cement being used. The recommended dosage is 4.6 liters of Roka ASR Resist per kg of sodium equivalent determined by performance testing. To maintain the water to cement ratio, subtract 0.85 liter of water for each liter of Roka ASR Resist added.

Direction for Use:

Measure the required quantity manually or using an automated dispenser and add it into water line at the batch plant or to the mixer at the end of the batching cycle.

Important Note:

The information provided in this data sheet is based on ongoing development efforts and extensive field experience. While we strive to ensure the accuracy and reliability of the information, we cannot assume responsibility for any work performed using our materials, as we have no control over application methods, site conditions, and other factors. Due to ongoing research and development in our laboratories, we recommend that customers verify that this data sheet has not been replaced by a more recent publication.

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