

XEOLITH® ASR Mitigation Treatment

Product Description:

XEOLITH® ASR Mitigation Treatment is a penetrating lithium nitrate solution that is clear and can be colorless to yellow in appearance. It is a concrete admixture designed for the prevention and control of alkali-silica reactivity (ASR). ASR is a reaction that occurs in concrete between reactive silica from aggregates (both coarse and fine) and the highly alkaline cement paste. Resulting in the formation of a gel that absorbs water causing swelling which exerts expansive pressure, leading to cracking of the concrete.

XEOLITH® ASR Mitigation Treatment suppresses ASR by forming dense products that protect reactive minerals from further reaction. It does not significantly increase hydroxide in the pore solution, thus significantly reduces the potential pessimum (expansion) effect. This makes **XEOLITH®** ASR Mitigation Treatment more effective at reducing ASR expansion than other lithium compounds.

Applications:

XEOLITH® ASR Mitigation Treatment is a cost-effective method for controlling ASR, ideally suited for surface treatment of concrete.

Chemical Formula:

LiNO₃

CAS No. :

7790-69-4

Specifications:

Parameters (units)	Typical specifications
Total solids (%)	Approx. 29
Density, at 25 °C (g/cm ³)	Approx. 1.20
pH, 1:6 dilution at 25 °C	7 – 10
Freezing point (°C, °F)	- 8, 18
Boiling point (°C, °F)	100, 230

*Specifications are compliant with ANSI/NSF STD 61 and ASTM C 494 Type S

Use:

The mitigation treatment can be applied using the following techniques:

- Sprayed on concrete surfaces
- Poned on surfaces
- Vacuum impregnation
- Pressure injection
- Electrochemical injection

Coverage rates range from 3 to 9 gallons per 1000 ft² (11.4 to 34.1 liters per 92.90 m²).

Disclaimer:

This document is for information purposes only. Customers are responsible for testing and confirming the suitability of this product in their application. To the extent permitted by law, no warranty as to merchantability or fitness of purpose, expressed or implied, is made.

Packaging:

Product is packaged and shipped in 55-gallon polyethylene drums or 275-gallon IBC totes.

Storage:

Product should be stored in a cool and dry place in sealed, original containers away from direct sunlight. Providing the product is kept in the original packaging, the shelf life is 12 months. For further safety information refer to product SDS available from your Bisley and Company contact.

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