

Airalon[®] Air-Entraining Additive

Air-Entraining Additive for Portland and Masonry Cement

Product Description

Airalon[®] is an aqueous solution of neutralized hydroaromatic and fatty carboxylic acids with the following specifications:

- Appearance: Dark brown liquid
- Specific Gravity: 1.04 (± 0.02)
- pH: 10 - 13
- Foaming Tendency: Moderate

Airalon is one of the most effective air-entraining additives yet developed for use in the manufacture of air-entraining Portland cement and masonry cements.

Action

Entrainment of air is accomplished by the development of a system of semi-microscopic bubbles introduced into the mix by agitation and stabilized by Airalon in the paste phase of the mortar or concrete.

These air bubbles act much like flexible ball bearings, increasing the mobility, or plasticity and workability, of the cement paste. This permits a reduction in mixing water with no loss of slump. Placeability is improved. Bleeding, plastic shrinkage and segregation are minimized.

Typical Applications

Airalon is widely used as an air-entraining and plasticizing agent for masonry cement and as an air-entraining agent for air entrained Portland cement.

Airalon is interground during the manufacture of these cements.

Product Advantages

- Proven performance
- Stable air
- Low addition rates
- Economical to use
- Easy and safe handling

Handling

Airalon may be sprayed as received into the mill's first compartment or added onto the clinker conveyor belt. Dilution with up to 5 parts water may be used to ensure greater proportioning accuracy and better distribution of Airalon.

Suitable proportioning pumps with adjustable flow rates should be used for consistent performance of the additive.

Addition Rates

The dosage rate of Airalon will depend on the fineness and the air content requirement of each cement as shown below:

| CEMENT TYPES | AIRALON DOSAGE (%) |
|--------------|--------------------|
| I A & II A | 0.03-0.06 |
| III A | 0.06 - 0.09 |
| Masonry | 0.10 - 0.35 |

Dosing Equipment The optimum dosage rate must be determined during full-scale cement mill tests.

GCP cement additives should be accurately dispensed through a calibrated dosing system, suitable for the cement mill and output required.

Specification Compliance

Airalon is specified as a reference additive under ASTM C 465 specification for air-entraining additions.

Packaging

Airalon is supplied in 210 L (55 gal) drums, or in bulk by tanker trucks. It contains no flammable materials.

Storage

Protect from freezing. Once frozen, the product should be thawed out slowly and re-mixed thoroughly prior to use.

Technical Services

Field Engineers from GCP are available to assist in laboratory and mill test evaluations of Airalon. Complete testing equipment and methods for analyzing mill performance are also available during plant trials.

ca.gcpat.com | North America customer service: 1-877-4AD-MIX (1-877-423-6491)

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

Airalon is a trademark, which may be registered in the United States and/or other countries, of GCP Applied Technologies Inc. This trademark list has been compiled using available published information as of the publication date and may not accurately reflect current trademark ownership or status.

© Copyright 2018 GCP Applied Technologies Inc. All rights reserved.

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Suite 450, Alpharetta, GA 30009, USA

GCP Canada, Inc., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6.

This document is only current as of the last updated date stated below and is valid only for use in the Canada. It is important that you always refer to the currently available information at the URL below to provide the most current product information at the time of use. Additional literature such as Contractor Manuals, Technical Bulletins, Detail Drawings and detailing recommendations and other relevant documents are also available on www.gcpat.com. Information found on other websites must not be relied upon, as they may not be up-to-date or applicable to the conditions in your location and we do not accept any responsibility for their content. If there are any conflicts or if you need more information, please contact GCP Customer Service.

Last Updated: 2022-04-27

ca.gcpat.com/solutions/products/airalon-air-entraining-additive