



LIQUID AIR ENTRAINING ADMIXTURE

Air entraining admixture for concrete and mortar

1. PRODUCT NAME

Akona® Liquid Air Entraining Admixture

2. MANUFACTURER

Bluestone Products™, a TCC Materials® company
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3. PRODUCT DESCRIPTION

Akona Liquid Air Entraining Admixture is a ready to use aqueous solution of special organic materials. Liquid Air Entraining Admixture entrains a small and stable amount of air into the desired mix. These small, stable air voids enhance the mixture and improve workability. Its chemical composition and physical properties make it ideal for many construction applications. It is intended for use when increased workability and freeze-thaw durability of concrete or mortar is preferred.

Features and Benefits

- Improves strength, workability, and freeze-thaw resistance
- Improved plasticity, water retention, and cohesiveness of mortar
- Improved resistance to scaling from deicing salts
- Reduced permeability, increased water tightness
- Reduced segregation and bleeding
- Meets ASTM C260 *Standard Specification for Air-Entraining Admixtures for Concrete*

When/Where to Use

- Exterior
- Concrete and cement mixes
- Masonry mortars

4. TECHNICAL DATA

- The concrete ratio (*Table I*) is designed to achieve an air entrainment level of 6.5% ($\pm 1.5\%$).
- The mortar ratio (*Table II*) is designed to achieve an air entrainment level of 8% ($\pm 2\%$).
- Many factors can effect final air content when mixing concrete or mortar product in the field.

Table I: Concrete Air Entrainment Target 6.5% ($\pm 1.5\%$)

Product:	Suggested Rate:
60 lbs. (27.2 kg) Pre-blended Concrete	3 fl. oz. ($\frac{3}{8}$ cup) (88.7 ml)
80 lbs. (36.3 kg) Pre-blended Concrete	4 fl. oz. ($\frac{1}{2}$ cup) (118.3 ml)
94 lbs. (42.6 kg) Portland Cement	16 fl. oz. (2 cups) (473 ml)

Table II: Mortar Air Entrainment Target 8% ($\pm 2\%$)

Product:	Suggested Rate:
60# Type N Pre-blended Mortar	4 fl. oz. ($\frac{1}{2}$ cup) (118.3 ml)
80# Type N Pre-blended Mortar	5 fl. oz. ($\frac{5}{8}$ cup) (147.8 ml)
80# Type S Pre-blended Mortar	6 fl. oz. ($\frac{3}{4}$ cup) (177.4 ml)

Available Size

- 1 qt. (32 oz. / 4 cups / 0.95 L) bottle (BOM #103941)

Coverage

Refer to Technical Data section.

5. INSTALLATION

Preparation

Read all directions before starting work.

- Prepare surfaces per manufacturers instructions of the cement, concrete or masonry product being used. Proper surface preparation is crucial to achieving a successful application.

Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

Mixing

- Slowly stir Concrete / Masonry Set Accelerator before use. Do not create bubbles or foaming by shaking the product.
- Always use clean tools and mixing containers.
- Follow packaged product manufacturer instructions for proper water per bag ratio. Substitute Liquid Air Entraining Admixture in place of "equal amount" of water to achieve the suggested addition rate per ratio tables. So, if you add 4 ounces of this admixture, add 4 ounces less water to keep the amount of "liquid per bag" ratio the same.

Application

This admixture is added to the mixing water of the concrete or mortar to achieve a desired air entrainment of the finished product. For air entrained concrete slabs, use a broom or float finish and do not use a steel trowel finish.

Curing

Follow manufacturers instructions for the cement, concrete or masonry product being used.

Clean Up

Follow manufacturers instructions for the cement, concrete or masonry product being used.

Limitations

- Follow all industry standard safety procedures when handling, such as gloves and eye protection.
- Do not allow unused bottle of product to freeze. Store dry at 40°F-95°F (4°C-35°C).

Safety

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS information is available on our website: tccmaterials.com

Cautions

Read complete cautionary information printed on product container prior to use.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered Akona brand product(s) under normal environmental and working conditions. Because each project is different, TCC Materials cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

6. AVAILABILITY

To locate Akona products in your area, please contact:
 Phone: 1.651.688.9116
 Email: info@tccmaterials.com

7. WARRANTY

Seller warrants that its product will conform to and perform in accordance with the product specifications. The foregoing warranty is in lieu of all other warranties, expressed or implied, including, but not limited to those concerning merchantability and fitness for a particular purpose. Because of the difficulty in ascertaining and measuring damages hereunder, it is agreed that Seller's liability to the Buyer shall not exceed the total amount billed and billable to the Buyer for the product hereunder.



Shelf Life	Best when used within one year in original, unopened bottle.
Storage Conditions	Store dry, 40-95°F (4°-35°C), out of direct sunlight, in tightly sealed original labeled container.
Color	Amber liquid.

KEEP PRODUCT IN CONTAINER FROM FREEZING

WARNING: INJURIOUS TO EYES

KEEP OUT OF REACH OF CHILDREN

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