



# AIR PLUS SUPER AIR PLUS

## Air Entraining Admixtures

### ADVANTAGES

- Reduces amount of concrete rejected due to low entrained air content
- **Air Plus** and **Super Air Plus** are premeasured dry materials and will not freeze
- Easily transported and dispensed
- Improves concrete workability
- Addition of **Air Plus** or **Super Air Plus** will not affect the water/cement ratio
- Entrained air content may be easily adjusted prior to job site testing
- **Air Plus** and **Super Air Plus** are packaged in water-soluble Fritz-Pak inner bags for convenient use at plant or job site.

### DESCRIPTION

**Fritz-Pak Air Plus** and **Super Air Plus** are dry powdered admixtures, packaged in patented ready-to-use water-soluble bags or in bulk (50 Lb bags). **Air Plus** and **Super Air Plus** are recommended for all types of air entrained concrete when an increase in entrained air content is necessary. **Air Plus** and **Super Air Plus** may also be used as primary air-entraining admixtures. **Air Plus** and **Super Air Plus** are compatible with all standard concrete admixtures.

### DIRECTIONS

1. If entrained air content is below the specified level, determine which **Air Plus** product is required. (See Recommended Dosage Rate).
2. Each **Air Plus** package is double bagged. Remove the protective outer bag and add the water-soluble Fritz-Pak inner bag to plastic concrete. The entire inner bag will easily dissolve.
3. Mix at high speed for 5 to 7 minutes to insure that the **Air Plus** is uniformly dispersed throughout the mix.
4. If entrained air content remains below specified levels, more **Air Plus** may be added.

### RECOMMENDED DOSAGE RATE

#### FOR CONCRETE:

One eight ounce bag (227 g) of **Air Plus** should increase the entrained air content for a full load (8 to 12 cubic yards or 6 to 9 cubic meters) of concrete by  $\frac{1}{4}$  to 1%. For larger increases in entrained air content, use one eight ounce bag (227 g) of **Super Air Plus** to increase the entrained air content for a full load of concrete by  $\frac{3}{4}$  to 2%. For use as a primary air-

entraining admixture, a dosage rate of 0.25 to 1.25 oz./cwt. (0.15 to 0.80 g/kg) is recommended to achieve 5 to 7% entrained air content. Cementitious content, concrete temperature, ambient temperature or concrete mixes containing accelerators, retarders, or special admixtures such as superplasticizers or silica fume may require dosage rates outside the recommended range. Contact your **Fritz-Pak** distributor with any questions concerning the dosage rates for these products. It is recommended that testing be done to determine the suitability of **Air Plus** and **Super Air Plus** to your mix designs.

#### FOR MORTARS AND DRY BLENDED PRODUCTS:

**Super Air Plus** can be used as an air entraining agent for the production of mortars and other dry blended materials. Up to 16% air entraining can be obtained with **Super Air Plus**. Air contents vary considerably depending on the materials used. Use the following table as a guideline:

Air Content	By weight of cement	By total weight
5-7%	0.25-1.25 oz/cwt 0.15-0.80 g/kg	0.9-4.5 oz/ton 0.6-3.2 g/kg
7-10%	1.0-4.0 oz/cwt 0.63-2.5 g/kg	5.0-12.0 oz/ton 2.4-10.0 g/kg
10-15%	4.0-6.0 oz/cwt 2.5-3.75 g/kg	14.0-22.0 oz/ton 10.0-15.0 g/kg

### COMPATIBILITY

**Air Plus** and **Super Air Plus** are compatible with all air-entraining admixtures, calcium chloride and other admixtures. When used with other admixtures, each one must be dispensed separately into the mix.

## APPLICABLE STANDARDS

**Air Plus** and **Super Air Plus** meet ASTM C-260, AASHTO M-154 & CRD C-13 specifications.

## PACKAGING

### Fritz-Pak Air Plus

- 8 oz. (227 grams) water soluble bag, 60 bags per case (item #95660)

### Fritz-Pak Super Air Plus

- 8 oz. (227 grams) water soluble bag, 60 bags per case (item #95664)
- 50 lb (22.7 Kgs) paper bag (item #95667)

## PRECAUTIONS

All **Fritz-Pak** Concrete Admixtures should be stored in a dry location, protected from breakage, deterioration and contamination. They are not subject to damage from freezing temperatures.

## DISCLAIMER

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning uses or applications are only the opinion of Fritz-Pak Corporation and users should make their own tests to determine the suitability of these products for their own particular purposes. Because of numerous factors affecting results, Fritz-Pak Corporation makes no warranty of any kind, expressed or implied, including those of merchantability and fitness for purpose. Statements herein, therefore, should not be construed as representations or warranties. The responsibility of Fritz-Pak Corporation for claims arising out of breach of warranty, negligence, strict liability, or otherwise are limited to the purchase price of the materials.

U.S. Patents No. 4,961,790 and No. 5,120,367.

## Notes:

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### *Other Air Entraining and Air De-training Agents Available:*

- **Air Minus**  
Cement and Concrete Defoamer and Air Detrainer
- **Fill Flow**  
Air Entraining Agent for Production of Flowable Fill

**Manufactured by:**  
**Fritz-Pak Corporation**  
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### Contact Fritz-Pak for information on:

- Concrete Set Retarders
- Superplasticizers
- Air-Entraining Agents
- Pump Primers/Pumping Aids
- Water Reducers
- Non-Chloride Accelerators
- Finishing Aids
- Non-Shrink Grout Additives
- Concrete Surface Retarders
- Admixture Concentrates for Dry Packaged Blenders