

Air Plus

Air Entraining Admixture

Fritz-Pak Air Plus allows you to adjust the air content of your concrete at the job. So you can stop worrying about rejected concrete. Super Air Plus can increase the air in the mix by up to 1%, when properly dosed. The natural air entrainer provides better results than the synthetic chemicals used in other entrainers because it disperses the air pockets more evenly throughout the mix. Air Plus comes packaged in a **water-soluble bag** that is easily added to the concrete truck at the job site.



No 95660

MEETS STANDARDS

ASTM C-260; AASHTO M-154;
CRD C-13

PACKAGING:

SIZE	8 oz. Bags
BAGS/CASE	60
CASES/PALLET	35

Also available in 50 lb. bags

ADVANTAGES

- Improved concrete workability
- Easily adjust air content at the job site
- No impact to water/cement ratio
- Increased air content by up to 1%

DOSAGE

Air Plus. One 8-oz 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 ¼ to 1%. 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. It is recommended that testing be done to determine the suitability of Air Plus in your mix.

DIRECTIONS

1. If entrained air content is below the specified level, determine which Air Plus product is required from the dosage rate above.
2. Each Air Plus package is double bagged. Remove the protective outer bag and add the water-soluble inner bag to plastic concrete. The entire inner bag will dissolve.
3. Mix at high speed for 5 to 7 minutes to insure that the Air Plus is uniformly dispersed throughout the mix. Improper mixing can result in poor performance.
4. If entrained air content remains below specified levels, more Air Plus may be added.

DOSAGE CHART

Desired Air Content	Dosage by Weight of Cement	Dosage by Total Weight of Blend
5-7%	0.25 - 1.25 oz/cwt 0.15-0.8- g/kg	0.9-4.5 oz/ton 28-141 g/MT
7-10%	1.0-4.0 oz/cwt 0.63-2.5 g/kg	5.0-12.0 oz/ton 156-275 g/MT
10-15%	4.0-6.0 oz/cwt 2.5-3.75 g/kg	14.0-22.0 oz/ton 438-688 g/MT

FREQUENTLY ASKED QUESTIONS

- Q.** What is the shelf life of Air Plus?
- A.** If stored properly, about 3-6 years. If the material ever seems hard or caked, do not use it. It will not break up in the mix.
- Q.** What does increased air content do?
- A.** It increases its durability by making it more resistant to damage from freezing.

Q. Can I use Air Plus in dry mixes for the production of mortars and stuccos?

A. Yes, Air Plus can be used for those applications. However, we recommend the use of Air Plus for the production of dry blended materials.

Q. Will it change the set time?

A. No, it will not speed or slow the set.

Q. What standards does Air Plus meet?

A. They meet ASTM C-260, AASHTO M-154 and CRD C-13 standards.

Q. Will these products affect the strength of my concrete?

A. They will not significantly change strength, and they will increase durability.

Q. What is the difference between Air Plus and Air Plus?

A. Air Plus has twice the concentration of the active ingredient of Air Plus.

Q. Which product should I use, Air Plus or Air Plus?

A. Air Plus should be used by concrete producers who have very consistent quality in their supply of raw materials, thus only needing small corrections of air. Concrete producers that have variation in their quality of raw materials normally experience wider fluctuations in air content and should consider using Air Plus.

Q. What is the raw material used in the production of Air Plus?

A. Vinsol Resin, a natural air entrainer.

Q. Are these products compatible with synthetic air entrainers?

A. Yes. Additionally the spacing and size of air bubbles is improved when natural air entrainers are used to correct synthetic air entrainers.

Q. Can they be used in dry-blended materials like mortars and stuccos?

A. Yes. See the recommended dosage rate chart.

Q. Are Air Plus and Air Plus effective in concrete with fly ash containing high levels of organic compounds (i.e. high LOI)?

A. Yes. Natural air entrainers are more effective than synthetic air entrainers.



Q. Can I add Air Plus or Air Plus to water to make a liquid admixture?

A. No. Some of the components will only dissolve under special conditions of temperature and pH.

Q. How long have the products been in the market?

A. Since 1992.

COMPATIBILITY & PRECAUTIONS

Air Plus is compatible with most concrete and cement admixtures. When using more than one admixture, each product should be dispensed separately. Air Plus does not contain calcium chloride, nitrates, or other potentially corrosive materials. Store in a dry location, protected from breakage, deterioration, and contamination. Air Plus is not subject to damage from freezing temperatures.

WARRANTY

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.

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