



AE-15

AIR ENTRAINING ADMIXTURE FOR CONCRETE

SPECCO AE-15 air-entraining admixture is designed to produce microscopic air bubbles in concrete mixes. **AE-15** helps to increase the workability of the concrete and provides freeze thaw resistance, improves plasticity, cohesiveness and placement, while reducing segregation, bleeding and shrinkage of the concrete mix. **AE-15** can be used across a wide range of concrete mix designs to produce the required air content with corresponding proper air void bubble size, spacing and distribution.

BENEFITS:

- Adds freeze/thaw protection against spalling
- Compatible with most other admixtures if pre-blending is required
- Improves workability and placement
- Provides weight reduction and higher concrete volume for precast

COMPOSITION: Blend of fatty acid salts and sulfonates in an alkaline solution. Contains less than 0.005% chlorides. **AE-15** does not contain any calcium chloride or intentionally added chlorides that would initiate or promote corrosion of reinforcement steel, or contribute to efflorescence.

LEED CREDIT CONSIDERATIONS: MR Credits 5.2: Regional materials-Greater than 20% extracted, processed and manufactured regionally at production location: Kankakee, Illinois 60901. 90%. Content- Harvested within 500 miles.

TECHNICAL DATA: Specco **AE-15** complies with ASTM C-233, ASTM C-260, AASHTO M-154, Federal SS- C-192 and CRD-C-13-66.

PHYSICAL PROPERTIES at 70° F (21°C)	APPROXIMATE VALUES
Weight per gallon:	8.40 +/- 0.20
pH:	10.0 +/- 0.50
Color:	Clear, blue liquid
Viscosity-Brookfield:	5 cps
V.O.C.	7 g/L (0.058 lb./gal)

DIRECTIONS FOR USE & RECOMMENDED ADDITION RATES: There is no set dosage rate for **AE-15**, however it is typically dosed at 0.75 to 1.0 oz. per 100 lbs. of cement (49-65 ml/100 kg) for most applications to produce concrete with 5 to 6 percent air entrainment. The exact quantity of **AE-15** required will vary due to differences in the concrete materials or field conditions. These include but are not limited to ambient and mix temperatures, cement, sand and aggregate gradation and ratio, additional admixtures in the mix, slump, water content, and temperature, mix time and mixer type, means of conveying and placing, as well as vibration method and duration. Specco recommends a trial mix be conducted with actual production materials in order to determine the optimum dosage for specific set time or strength requirements. Once this dosage is established, frequent checks should be made during the placement of the concrete to ensure desired air entrainment levels are maintained. The pre-measured amount of **AE-15** selected should be added to the batch water if possible to allow maximum dispersion throughout the mix.

CAUTIONS: Since air entrainment admixtures will increase the volume of the concrete, it is necessary to reduce the water requirement and aggregate content, to maintain the cement factor and yield. **AE-15** is fully effective and compatible in concrete with other admixtures including calcium chloride. However, each admixture should be added separately to the concrete mix, and once added, may alter the amount of air entrainment obtained. The addition rate of **AE-15** is usually increased when used in tandem with certain high range or carboxylated type superplasticizers. The addition rate of **AE-15** is usually decreased when used in tandem with certain low range water reducers or retarding compounds. Avoid excessive vibration when using **AE-15** which can decrease the resulting concrete air content and may generate increased surface defects or aggregate segregation especially in precast related work. **AE-15** will freeze at approx. 32° F (0° C), but may be completely restored by thawing above 32° F (0° C) and thoroughly mechanically agitating before use. Do not use pressurized air for mixing or agitation. Specco **AE-15** should be stirred before using if the material has set for an extended period (3-6 months).





GHS HAZARD RATINGS: NONE

FIRST AID: REFER TO PRODUCT S.D.S. (SAFETY DATA SHEET) FOR COMPLETE HEALTH AND SAFETY INFORMATION BEFORE USING THIS PRODUCT. FOR MEDICAL EMERGENCIES ONLY –CALL INFOTRAC AT 800-535-5053.: AVOID CONTACT WITH SKIN AND EYES. WEAR PROTECTIVE CLOTHING AND SAFETY GLASSES DURING APPLICATION. KEEP AWAY FROM FOOD AND DRINK. DO NOT TAKE INTERNALLY. REFER TO PRODUCT S.D.S. (SAFETY DATA SHEET) FOR FURTHER HEALTH AND SAFETY INFORMATION. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. FOR MEDICAL EMERGENCIES ONLY, CALL INFOTRAC AT 800-535-5053.

H.M.I.S. CODES: HEALTH = 1, FLAMMABILITY= 0, REACTIVITY = 0, PERSONAL PROTECTION = C (GLOVES, GOGGLES, APRON)

SHIPPING NAME: Concrete Admixture – Water base - Not regulated

SHIPPING CLASS: ITEM 33880, SUB 2, LTL 55

STORAGE: Ideal storage is between 60° to 80° F. Keep from freezing.

SHELF LIFE: 1 year stored properly. Depending on storage conditions, the shelf life may be extended.

PACKAGING: 5 gallon (18.9 L) pails, 55 gallon (208 L) drums, 265 gallon (1000 L) containers.

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