

## AE-15 AIR ENTRAINING ADMIXTURE

**PRODUCT DESCRIPTION:** 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 PREBLENDING 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.

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

**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.

**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).

**WARNINGS:** 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 M.S.D.S. (Material Safety Data Sheet)

for further health and safety information. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

**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.

**LIMITED WARRANTY:** This product is warranted to be of merchantable quality when used according to the instruction herein. It is not warranted to be suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of the product as purchased, if found to be defective upon inspection by the manufacturer. This limited warranty is issued and accepted in lieu of all other expressed warranties and explicitly excludes liability for consequential damages. Buyer assumes all risk and liability resulting from the use of this product.

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