

Product Data Sheet

CasTech AEA-10

Nov-2025, Ver. 01.01



Air-Entraining Admixture – ASTM C260

DESCRIPTION

CasTech AEA-10 is an air-entraining agent based on synthetic surfactants. Its efficiency is based upon the entrainment into the mix of a high number of correctly sized and evenly distributed air bubbles. It meets ASTM C260 requirements.

USES

- Normal mix designs
- Lightweight concrete
- Low slump concrete
- Concrete containing high carbon content fly ash
- Concrete containing large amounts of fine materials
- Concrete using high-alkali cements
- High temperature concrete
- Concrete with extended mixing times
- Entraining a controlled air content in a wide range of concrete types

ADVANTAGES

Key advantages:

- Ready to use
- Increased water tightness
- Reduced segregation and/or bleeding
- Improved plasticity and workability
- Increased resistance to scaling
- Greatly improved stability of air entrainment

TYPICAL PROPERTIES

Specific Gravity	1.01
pH	9.00 ± 1.00
Standard	ASTM C260

*The above properties are average laboratory values.

INSTRUCTIONS FOR USE

Add **CasTech AEA-10** to the concrete mix using a dispenser, or manually using a suitable measuring device that ensures accuracy within $\pm 2\%$ of the required amount. When two or more admixtures are used, they must be added separately and must not be mixed with each other prior to adding to the concrete. For optimum performance, the air entraining additive should be dispensed on damp, fine aggregates.

DOSAGE

Typical dose rate for general concrete production is 50 – 150 ml per cubic metre of concrete. For low slump (<65 mm) and pavement concrete, and concrete with high volumes of fly ash, substantially higher dose rates of 100 – 600 ml per cubic metre may be required. Optimum dosage depends on the type of concrete, site conditions, mix proportions and the desired plastic and hardened properties; laboratory and/or field trials are essential. Air content is affected by sand, cement, fly ash, aggregates and other admixtures.

PRECAUTIONS

Health & Safety:

As with all chemical products, caution should always be exercised. Protective clothing, such as gloves and goggles, should be worn. See packaging/MSDS for specific instructions. Treat any splashes to the skin or eyes with fresh water immediately. Should the product be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

STORAGE

12 months when stored in a cool dry environment in factory packed, unopened containers between 5°C and 32°C.

PACKAGING

CasTech AEA-10 is supplied in 200-liter drums and 1000-liter IBC.

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TECHNICAL SUPPORT

CasTech offers a full technical support package to specifiers,

contractors and end users, as well as technical assistance on site and after-sales consultations.

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