



Description:

AIR ENTRAINING AE 3000 is a liquid air entraining admixture designed to generate a stable and uniformly distributed microscopic air void system in concrete. It significantly improves freeze–thaw durability and workability of fresh concrete.

Technical Properties:

Chemical Content	Synthetic/natural surfactants
Appearance	Liquid
Color	Yellowish
pH	6±1
Density (20 °C)	1.01 ± 0,02 g/cm ³
Chloride Content (%)	< 0.1
Alkaline Content (%)	< 5
Freezing	- 5°C

Advantage:

- Improves workability.
- Increases freeze-thaw resistance.
- Increases resistance of concrete against de-icing salt.
- Increases durability.
- Decreases water quantity without loss of workability.
- Reduces the risk of segregation.

Area of Use:

- Airports, runways and taxiways.
- Concrete roads.
- Dams and reservoirs.
- Mass concrete structures.

Dosage:

AIR ENTRAINING AE 3000 usage ratio is % 0,02-0,15 of total binder content.

When required, the Polystar Co. Technical Support Unit should be consulted.

Method of Application:

AIR ENTRAINING AE 3000 is added to the mixing water before the mixing water is introduced to the aggregate. If used with other admixtures, each admixture should be added to the mix separately.

Standards:

- EN 934-2 Table 5
- ASTM C 260

Compatibility:

ANTI ENTRAINING AE 3000 admixture is compatible with other POLYSTAR plasticizer admixtures used in the same concrete mix.

Precautions in Application:

- The dosage must be determined by preliminary laboratory trials for each concrete mix design.
- Air content may vary depending on cement type, aggregate grading, mixing time and temperature. Adjust dosage accordingly.
- Overdosing may result in excessive air content, leading to reduced compressive strength and surface defects.
- Changes in superplasticizer type or dosage may significantly affect the air content. Compatibility tests are recommended.
- Prolonged mixing or high-energy mixing may alter the air void system.
- Concrete air content should be measured on fresh concrete before placement.
- Product should not be added directly onto dry cement; it is recommended to add with mixing water or into the wet mix.
- Protect the product from freezing. Do not use if the product has been frozen or separated.
- Store in tightly closed original containers.



Cleaning:

AIR ENTRAINING AE 3000 admixture can be washed with fresh cold water and should not be allowed enter sewers or open bodies of water.

Packing:

- 30 kg plastic drum
- 250 kg drum
- 1000 kg container

Storage and Shelf Life: Must be stored at temperatures between +5°C and +35°C. Under proper storing conditions, the product's shelf life is 24 months from production date if kept in original packaging unopened and undamaged. Packaged products must be shaken before use.

Security Information: Use protective clothes, gloves, glasses and mask compatible with Health and Safety regulations during the application. It should not contact skin and eyes. In case it contacts to skin and eyes, rinse it with water and if swallowed ask for medical help. Food and beverage should not be allowed in the application area. It should be stored at the reach out of the children. The Material Safety Data Sheet (MSDS) should be read for detailed information