



Description:

A500 ADMIXTURE is a next-generation polymer-enhanced chemical admixture specifically developed for use in A500 ADMIXTURE. It functions as a water-reducing, rheology-modifying, and early- and final-strength enhancing admixture.

It improves mixture homogeneity, reduces water demand, and supports the stability of the pore structure.

Technical Properties:

Chemical Content	New generation polymer
Appearance	Liquid
Color	Light Brown
pH	8,5±1
Density (20 °C)	1.10 ± 0,02 g/cm ³
Chloride Content (%)	< 0.1
Alkaline Content (%)	< 5
Freezing	-10 °C

Advantage:

- Improves flowability of the mixture.
- Helps reduce the water/binder ratio.
- Ensures homogeneous distribution of aluminum powder within the mix.
- Reduces collapse and segregation during gas formation.
- Contributes to a more uniform pore structure.
- Provides consistent and repeatable production quality.
- Reduces cracking and sticking during demolding.
- By reducing mixing water, it lowers cement consumption while improving final product quality (fewer cracks, reduced sticking, improved pore distribution, and enhanced frost resistance).

Area of Use:

- A500 ADMIXTURE block and panel production
- Low, medium, and high-density A500 mixtures
- Cement–lime–silica based A500 systems.

Dosage:

The recommended dosage of A500 ADMIXTURE is between 1% and 3% by weight of cement.

The optimum dosage should be determined by preliminary laboratory and plant trials according to the desired cement and mixture performance. The optimum dosage may vary depending on clinker properties, cement type, and production conditions. When required, the Polystar Co. Technical Support Unit should be consulted.

Packing:

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

Method of Application:

- A500 ADMIXTURE can be added to the mixing water or dosed directly into the mixer.
- Adequate mixing must be ensured to allow homogeneous dispersion of the admixture throughout the mixture.
- Prior to industrial production, compatibility with other A500 ADMIXTURE (such as aluminum powder, stabilizers, etc.) must be tested.



Compatibility:

A500 ADMIXTURE is compatible with other POLYSTAR plasticizer admixtures used in the same concrete mix.

Precautions in Application:

- The optimum dosage must be determined through preliminary laboratory and plant trials. Overdosing may affect pore structure and setting behavior.
- Compatibility with cement, lime, aluminum powder, and other AAC additives must be verified before full-scale production.
- Do not mix with unknown chemical admixtures without prior testing.

Cleaning:

A500 ADMIXTURE can be washed with fresh cold water and should not be allowed enter sewers or open bodies of water.

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 12 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.

