



## MULTI-PURPOSE SET RETARDING & BOND ENHANCING MORTAR ADMIXTURE

### Description:

MULTISET SV 500 is a high-performance liquid admixture compatible with all types of cement and hydraulic binders. It provides controlled set retardation, improves workability, enhances adhesion to substrates, and increases durability and impermeability of cement-based mortars.

It optimizes mortar rheology, reduces cracking and segregation, and contributes to improved strength development.

### Technical Properties:

<b>Chemical Content</b>	Organic retarder & polymer blend.
<b>Appearance</b>	Liquid
<b>Color</b>	Light yellow
<b>pH</b>	7±1
<b>Density (20 °C)</b>	1.10 ± 0,02 g/cm <sup>3</sup>
<b>Chloride Content (%)</b>	< 0.1
<b>Alkaline Content (%)</b>	< 5
<b>Freezing</b>	-10 °C

### Advantage:

- Provides controlled set retardation.
- Enhances workability and plasticity.
- Improves adhesion to substrate.
- Increases freeze-thaw resistance.
- Reduces cracking and segregation.
- Improves impermeability.
- Contributes to early and final strength development.
- Does not promote reinforcement corrosion.
- Compatible with lime-containing systems.

### Area of Use:

- Cement-based plaster mortars.
- Masonry mortars.
- Repair and patching mortars.
- Screed mortars.
- Lime-modified mortar systems.
- Thin and thick layer mortar applications.

### Dosage:

3 – 8 kg per m<sup>3</sup> of mortar is recommended.

The optimum dosage depends on:

- Cement type.
- Ambient temperature.
- Required setting time.
- Targeted performance.

Trial mixes must be performed prior to application to determine the correct dosage. When required, the Polystar Co. Technical Support Unit should be consulted.

### Method of Application:

MULTISET SV 500 admixture can be added directly to the mixing water or to freshly mixed mortar. The appropriate aggregate size distribution and water/cement ratio should be selected. Ensure thorough mixing to obtain a homogeneous mortar.

### Standards:

- EN 934-2 Table 8
- ASTM C 494 Type B

### Compatibility:

MULTISET SV 500 admixture is compatible with other POLYSTAR plasticizer admixtures used in the same concrete mix.

### Precautions in Application:

- Do not exceed the recommended dosage without prior laboratory testing.
- Trial mixes must be carried out before large-scale application.
- Adjust dosage according to cement type, temperature, and required setting time.
- Do not use with incompatible admixtures without compatibility testing.
- Avoid overdosing, as excessive retardation may occur.
- Protect fresh mortar from frost, extreme heat, and rapid drying.
- Ensure proper mixing to achieve a homogeneous distribution of the admixture.

### Cleaning:

MULTISET SV 500 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 Bulk



### Storage and Shelf Life:

Must be stored at temperatures between +5°C and +45°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.

