



Early & Final Strength Enhancing Grinding Aid for All Cement Types

Description:

POLYSTAR SE 3100 is a high-performance grinding aid with strength-enhancing properties, specifically formulated to improve both early and finally compressive strength of cement. In addition to facilitating the grinding process, it enhances cement hydration efficiency, resulting in improved mechanical performance without negatively affecting setting time or workability. During grinding, the product adsorbs onto the surface of cement particles, reducing surface energy and preventing re-agglomeration.

Technical Properties:

Chemical Base	Amine
Appearance	Homogeneous Liquid
Color	Dark Brown
pH	9 ±1
Density (g/cm³)	1,06 ± 0,02
Chloride content	< 0,01

Application :

POLYSTAR SE 3100 should be directly added to the mill or conveyor belt during the grinding process using an adjustable dosing pump.

Advantage :

- Increases early strength (1–2 days)
- Improves late strength (28 days and beyond)
- Enhances grindability and milling efficiency
- Increases mill throughput or fineness at equal energy input
- Reduces agglomeration and coating effects
- Improves particle dispersion and hydration efficiency
- Supports energy savings and CO₂ emission reduction
- Maintains stable setting time at recommended dosage

Health and Safety Information:

The additive must be kept away from the skin and eyes. In case of any contact, it must be washed with water. When contacted with eyes one must immediately rinse it with water and medical support must be taken. Protective goggles / gloves / mask should be used during the usage of the additive. The Safety Data Sheet (SDS) should be read for detailed information.

Dosage:

Recommended dosage range: 0.03% – 0.06% by weight of cement (300–600 g/ton). timal dosage should be determined through laboratory and industrial mill trials, based on clinker properties, mill settings, and target fineness.

Storage:

Must be stored at temperatures between +5°C and +35°C. Direct sunlight exposure and freezing conditions should be avoided. Once frozen, the product should be thawed out slowly and re-mixed thoroughly prior to use. Under proper storing conditions, the product's shelf life is 12 months from production date if keep in original packaging unopened and undamaged.



Standards compliance:

Complies with ASTM C465.

Cleaning :

In case of a possible spill or contamination, it can be washed with clean cold water.

Fire : POLYSTAR SE 3100 non-flammable.

Packaging : 1000 kg IBC konteyner Bulk

