



EARLY STRENGTH ACCELERATOR CONCRETE ADMIXTURE

Description: SET ACCELERATING SA800 is a chloride-free liquid hardening accelerator designed to significantly increase early compressive strength of concrete without excessively reducing workability.

Technical Properties:

Chemical Content	Organic/inorganic compounds
Appearance	Liquid
Color	Light Brown
pH	8±1
Density (20 °C)	1.20 ± 0,02 g/cm ³
Chloride Content (%)	< 0.1
Alkaline Content (%)	< 5
Freezing	-10 °C

Advantage:

- Increases 1-day and 2-day compressive strength.
- Allows earlier demolding.
- Accelerates initial and final setting time.
- Improves early strength development.
- Chloride-free (suitable for reinforced concrete).
- Compatible with superplasticizers.
- Reduces waiting time for finishing operations.

Area of Use:

- Ready-mix concrete.
- Cold weather concreting.
- Fast track construction.
- Early formwork removal.
- Precast elements.
- Industrial flooring.

Dosage:

Recommended dosage: 0,8 – 2.0% by weight of cement. Actual dosage should be determined by laboratory trials depending on: Cement type, Ambient temperature, Desired setting time. When required, the Polystar Co. Technical Support Unit should be consulted.

Method of Application:

SET ACCELERATING SA800 is used by adding it to the concrete mixing water. It should not be used in the production of fluid concrete. It may cause excessive air entrainment and loss of concrete strength.

Standards:

- EN 934-2 Table 7
- ASTM C 494 Type C

Compatibility:

SET ACCELERATING SA800 admixture is compatible with other POLYSTAR plasticizer admixtures used in the same concrete mix.

Precautions in Application:

- Do not exceed the recommended dosage. Overdosing may cause flash setting and loss of workability.
- Always perform preliminary laboratory trials before large-scale application.
- Setting time reduction depends on cement type, temperature, and mix design.
- Not recommended for use with high C₃A cement without prior testing.
- Avoid combining with high-dose retarders unless compatibility is verified
- Protect fresh concrete from rapid moisture loss.
- In cold weather, concrete temperature should not fall below +5°C during early hydration.
- Ensure proper curing after placement.
- Do not mix directly with other admixtures before dilution in the concrete mix.

Cleaning:

SET ACCELERATING SA800 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.

