



SET RETARDING CONCRETE ADMIXTURE

Description: SET RETARDER SR7000 is a liquid set retarding admixture designed to delay the setting time of concrete without affecting water demand or workability..

Technical Properties:

Chemical Content	Organic retarding agent
Appearance	Liquid
Color	Brown
pH	9±1
Density (20 °C)	1.08 ± 0,02 g/cm ³
Chloride Content (%)	< 0.1
Alkaline Content (%)	< 5
Freezing	-10 °C

Advantage:

- Provides controlled extension of initial and final setting time.
- Improves workability retention in hot weather conditions.
- Reduces risk of cold joints during extended placing operations.
- Does not affect water demand of the concrete mix.
- Maintains designed water/cement ratio and strength performance.
- Compatible with polycarboxylate (PCE) and other high-range water-reducing admixtures.
- Allows independent adjustment of setting time without influencing slump or strength development.
- Suitable for mass concrete applications by moderating heat evolution.
- Chloride-free and safe for reinforced concrete.

Area of Use:

- Ready-mix concrete requiring extended setting time.
- Concrete placed in hot weather conditions.
- Long transportation or extended placing operations.
- Mass concrete (rafts, thick foundations, dams).
- Large volume pours to reduce risk of cold joints.
- Concrete where independent control of setting time is required.
- Projects requiring improved workability retention without water reduction.

Dosage:

SET RETARDER SR7000 is used % 0,2-0,6 of total binder. This ratio varies depending on the cement, aggregate, mineral admixtures, water components used in the concrete mix design, as well as the desired fresh and hardened concrete properties. Therefore, before determining the usage ratio, laboratory tests should be conducted according to the expected properties of fresh and hardened concrete, and the mix ratio should be determined based on these tests. When required, the Polystar Co. Technical Support Unit should be consulted.

Method of Application:

SET RETARDER SR7000 is supplied as a ready-to-use liquid additive for fresh concrete mixes. The additive must be added to the concrete before placement. After adding the additive to the concrete in the transit mixer, the mixer is mixed at maximum speed for at least 3 minutes.

Standards:

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

Compatibility:

SET RETARDER SR7000 admixture is compatible with other POLYSTAR plasticizer admixtures used in the same concrete mix.

Precautions in Application:

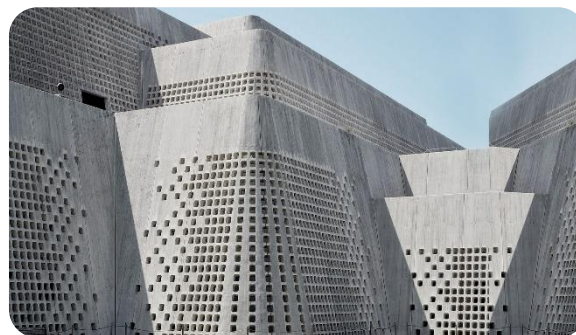
- Perform laboratory trial mixes before use to determine the optimum dosage conditions.
- Dosage must be adjusted according to cement type, ambient temperature, and required setting time.
- Overdosing may cause excessive delay in setting time or risk of non-setting concrete.
- This product does not provide water reduction; the water/cement ratio must be adjusted separately if required.
- Do not mix with other admixtures before testing compatibility.
- When used together with polycarboxylate or other admixtures, compatibility tests are recommended.
- Add to the mixing water or during batching; do not add directly onto dry cement.
- Protect freshly placed concrete from rapid moisture loss, especially in hot weather conditions.
- Not suitable for use in temperatures below +5°C without prior testing.

Cleaning:

SET RETARDER SR7000 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 +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.

