



CONCRETE PUMPING AID & FLOW STABILIZER

Description:

PUMPING AGENT is a liquid concrete admixture designed to improve pumpability by reducing friction inside the pipeline and stabilizing the concrete mix during pumping.

It forms a lubricating film inside the pump line and enhances flow continuity, especially in long-distance or high-rise pumping applications.

Technical Properties:

Chemical Content	Synthetic polymer dispersion
Appearance	Liquid
Color	Brown
pH	7±1
Density (20 °C)	1.08 ± 0,02 g/cm ³
Chloride Content (%)	< 0.1
Alkaline Content (%)	< 5
Freezing	-5 °C

Advantage:

- Lower pumping pressure.
- Reduced pipeline blockage.
- Improved surface finish.
- More stable concrete flow.
- Reduced cold joint risk.

Area of Use:

- Long-distance concrete pumping.
- High-rise buildings.
- Tunnels and infrastructure projects.
- Mixes with low fines content.
- Hot weather concreting.

Dosage:

PUMPING AGENT is used % 0,4-0.8 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:

PUMPING AGENT 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.

Packing:

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

Compatibility:

PUMPING AGENT admixture is compatible with other POLYSTAR plasticizer admixtures used in the same concrete mix.

Precautions in Application:

- Perform compatibility tests with local cement and aggregates before large-scale application.
- Determine optimum dosage by laboratory and site trials. Overdosing may influence setting time and workability retention.
- Do not use as a replacement for proper mix design. Adequate fines content is essential for good pumpability.
- When used together with superplasticizers (especially PCE-based), verify compatibility through preliminary testing.
- In long-distance pumping, pipeline pre-lubrication is recommended before the first discharge.
- Avoid adding directly onto dry aggregates; always dose into mixing water or fresh concrete.
- Protect from freezing. If frozen, thaw completely and mix thoroughly before use.
- Do not mix with other admixtures unless compatibility is confirmed.

Cleaning:

PUMPING AGENT admixture can be washed with fresh cold water and should not be allowed enter sewers or open bodies of water.

Standards: - EN 934-2 - ASTM C 494



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.

