



SEMI DRY AND NO SLUMP CONCRETE ADMIXTURE

Description: ZERO SLUMP ZS6100 is a modified polymer based plasticizer developed for semi-dry and zero-slump concrete products that improves demolding and final strength, and enhances production efficiency.

Technical Properties:

Chemical Content	Modified Polymer
Appearance	Liquid
Color	Brown
pH	8±1
Density (20 °C)	1.06 ± 0,02 g/cm ³
Chloride Content (%)	< 0.1
Alkaline Content (%)	< 5
Freezing	-10 °C

Advantage:

- It ensures the homogeneous distribution of cement, mineral additives, and pigments.
- Decreases friction between the concrete and the mould.
- Increases mould filling speed.
- Shortens compaction time.
- Increases freeze-thaw stability.
- Increases concrete stability and service life.
- It increases the initial and final compressive and tensile strength.
- It provides early strength development, thus allowing for earlier removal of blocks, resulting in reduced labor costs and increased site efficiency.
- Does not contain chloride or any other substances that may cause corrosion.

Area of Use:

- In the production Semi-dry / Zero slump concrete.
- In the production paving stone.
- In the production of precast blocks and curb stones.
- In the production of colored zero-slump concrete.
- It is used in other products manufactured with a semi-dry consistency.

Dosage:

ZERO SLUMP ZS6100 is used % 0,4-1.0 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:

ZERO SLUMP ZS6100 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 206
- ASTM C 143

Compatibility:

ZERO SLUMP ZS6100 admixture is compatible with other POLYSTAR plasticizer admixtures used in the same concrete mix.

Precautions in Application:

- Concrete design and admixture dosage should be determined by prior laboratory tests, according to the desired concrete class and properties.

Cleaning:

ZERO SLUMP ZS6100 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.

