

High early strength, high range Water reducing Super plasticizing, admixture for precast concrete

DESCRIPTION

SILOX SP-180 is an admixture of a new generation based powerful Poly carboxylic ether polymer with high early strength gains. The product is designed for allowing solid particles to be effectively dispersed in the mix.

Therefore, a high level of fluidity and plasticizing can be reached with a high-water reduction.

Uses

- Precast concrete – Prestressed concrete elements
- Post-tensioned concrete bridge segments
- Fast-track concrete
- Very high-performance concrete
- Self-compacting concrete

Advantages & Benefits

- Achieve high early strengths
- Produces High plasticity and flow concrete with low water cement ratio
- Saving the energy required for placing and compacting
- Reduced permeability
- Low Chlorides & Alkali
- Compatible with all types of cements, GGBS, Fly ash and Silica fume
- Produce durable precast concrete elements



Technical Data

Color	Amber to yellow
Density @ 25°C	1.08 ±0.02 kg/l at 25°C
PH @ 25°C	5±2
Chloride content	Nil

Standard Compliance

SILOX SP – 180 complies with ASTM C494 Type A and F admixture & EN 934-2 depending on dosage used.



Technical Support

SILOX Technical Team are welcoming to any technical advices that our clients need and fully supporting at site to achieve best results and better concrete mix.

Dosage

0.5% -3.5% by weight of cement is recommended. Higher dosages by weight of cement can be used depending on the mix design, raw materials, climatic conditions and concrete requirements. Trials need to be carried out at site to determine the exact dosage rate of the admixture for the particular mix design and materials.



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Data Fact Sheet

SILOX-SP 180



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METHOD OF USE

SILOX SP-180 is supplied ready for use. It should be added to concrete mixes during the mixing cycle or at the same time as the water starts flow to the mix.
For best results it should be added after 70% of adding water to the mixing unit.

Compatibility

SILOX SP-180 is compatible with all types of Portland cement (OPC and SRC), concretes containing pozzolanic materials such as GGBS, FA, micro-silica.

Packaging

SILOX SP-180 is supplied in 1000 L IBC and 200 kg drums. Alternatively, bulk deliveries can be arranged.

Storage and Shelf Life

SILOX SP-180 has a shelf life of 12 months from production date provided it is covered under cool and dry place. Avoid exposed to the direct sun light.

Health & Safety

SILOX SP-180 is not hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes.
Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of fresh water.
The product is water based and nonflammable.



Cleaning

In case of spillage, wash it with clean water.

