



SILKON
ADDITIVES INDIA PVT LTD

Supremix PC 450

Supremix PC450 is an Advanced Low Viscosity High Performance Super-plasticiser, based on Polycarboxylic technology this is an unique combination of the latest generation superplasticisers, based on a polycarboxylic ether polymer with long lateral chains VMA and Rheology modifier inbuilt, This greatly improves cement dispersion. At the start of the mixing process an electrostatic dispersion occurs but the cement particle's capacity to separate and disperse. This mechanism considerably reduces the water demand in flowable concrete. Supremix PC 450 combines the properties of water reduction and workability retention. It allows the production of high performance concrete and/or concrete with high workability.

Uses & Advantages

Supremix PC 450 is a high performance superplasticiser intended for applications where high water reduction and long workability retention are required, and it has been developed for use in:

- Self-compacting concrete,
- Pumped concrete,
- Concrete requiring long workability retention,
- High performance concrete.
- Low viscosity suitable for pumping of different grades of concrete to higher floors
- Higher E modulus
- Improved adhesion to reinforcing and prestressing steel
- Better resistance to carbonation
- Lower permeability
- Better resistance to aggressive atmospheric conditions
- Reduced shrinkage and creep
- Increased durability

Standard Compliance

Supremix PC450 complies with IS:9103-1999(2007). It also complies with ASTM C494 Type G depending on the dosage used

Technical support

Silkon provides a technical advisory service for on-site assistance and advice on mix design, admixture selection, evaluation trials and dispensing equipment.

Properties

Appearance	:	Light yellow colour liquid
pH	:	Minimum 6.0
Volumetric mass @ 20 ^o C	:	1.08 kg/litre
Chloride content	:	Nil to IS:456

Dosage

The optimum dosage of Supremix PC450 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is between 0.5 to 3.0 ltrs/100 kg of cementitious material.

Effects of overdosing

Dosage outside the normal range quoted above can be used to meet particular mix requirements. Overdosage may cause delay in the setting time and segregation. Contact Silkon for advice in these cases

Packaging

Supremix PC450 is available in 200kg and 250kg drums and bulk tanker.



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Storage

Supremix PC 450 has a minimum shelf life of 12 months provided the temperature is kept within the range of 2⁰C to 50⁰ C. Should the temperature of the product fall outside this range then contact local Silkon office for advice.

Health and safety instructions

Supremix PC450 does not fall into the 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 water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting. For further information consult the Material Safety Data sheet available for this product.

Fire

Supremix PC 450 is water based and non- flammable.

Cleaning and Disposal

Spillages of Supremix PC 450 should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water. The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.