

HighFlow PCE 120

New Generation Poly Carboxylate Ether (PCE) based Water Reducing admixture

Product Description

HighFlow PCE120 is a versatile, robust and economical water reducing admixture based on a specially formulated modification of polycarboxylate ether chemistry. The product has been primarily developed for all types of normal and specialty concrete classes in the premix, precast and in situ concrete. Providing workable and cohesive mixes with less water.



Areas of Application

- High strength and high performance concrete.
- Ready - mixed concrete.
- Structures with congested reinforcement.
- All types of concrete where a non-chloride water reducing admixture is required, such as foundations, slabs, driveways, floor slabs, water tanks and swimming pools.
- Improved cohesion allow for use in mass concrete pours and piling.



Advantages

- The minimum water / cement ratio can be achieved with high quality self -compacting concrete.
 - Reduce the need for water in concrete. (Water cut % 15 – 30).
 - High density and impermeable concrete through very high water reduction.
 - Improves shrinkage and creep behaviors.
 - Minimizes segregation and bleeding problems by improving cohesion.
 - Improved pumpability resulting in lower pump operating pressures
 - High early and ultimate compressive strengths.
 - Construction also will not need to re-adjust consistency.
 - Tightness is achieved in concrete. Homogeneous and cohesive concrete.
 - Increase resistance to aggressive chemicals in concrete.
- Contribute to long - distance use an easier to pump concrete into high places.

Disposal

Empty packages can be thrown to the collection bins according to regional-local regulations or recycling rules. After drying up and hardening the used waste material, throw it away as construction waste material. It is dangerous to dispose of product wastes by burning them.

Points to Take into Consideration

Keep the products in places out of reach of children. Always keep the cover of the products closed. It is recommended to wear gloves and goggles during operation. In case of contact of skin with the material, it should be washed with soap and water immediately. In case of contact with the eye, see your doctor immediately.

General Considerations

Above-mentioned product information and descriptions are prepared for guidance purposes as a result of our experiences and meticulous studies. The variety of related materials and their different construction and operation conditions can not be controlled or influenced by us individually. For applications beyond our control, the guarantee status is only limited to the quality of sold product. Except the manufacturing of the product, no guarantee is given for application. This technical sheet invalidates all the existing sheets. The quality of the performed job may vary depending on your professional use of the product. If you are hesitant, make a little test or get technical help.

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Dosage

The dosage of HighFlow PCE120 is 0.70 to 2.0 Kg per 100 kg of cementitious materials in the mix, including GGBFS, PFA or micro silica.

Method of use

HighFlow PCE120 should be added to the concrete with the mixing water to achieve optimum performance. Contribution should be involved with the final mixing water to the concrete mix. (65 -70% of the mixing water, after the mixture). The dry aggregate and cement for water reduction and plasticizing cause a reduced effect must not be added.

Standards

HighFlow PCE120 complies with ASTM C494, Type F & EN934-2 Chart 3.1, 3.2.

Technical Data

Property:	
Aspect	Light yellow liquid
Freezing point	-16 °C approximately
Specific gravity	1.075 @ 25 °C

Effects of over dosage

Over dosing of HighFlow PCE120 will cause the following:

- Significant increase in retardation.
- Increase in workability.

Cleaning

HighFlow PCE120 should be washed with fresh cold water.

Packaging

HighFlow PCE120 is available in 30Kg pail, 250Kg drums & 1200 Kg IBC spill. In the original packaging, +50 °C / +250 °C in a dry, ventilated and protected in, stored away from direct sunlight and protected from frost when the shelf life is longer than 1 year. If the product is frozen, then thawed at 20 °C and wait for available thoroughly mixed.

Fire

HighFlow PCE120 is water based and is nonflammable.

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