

HighFlow PCE 4880

New Generation High Range Water Reducing Superplasticizing Concrete Admixture

Product Description

highFlow PCE 4880 is a high performance superplasticising admixture based on polycarboxylic polymers with long chains specially designed to enable the water content of the concrete to perform more effectively. This effect can be used in high strength concrete and flowable concrete mixes, to achieve highest concrete durability and performance.

Areas of Application

- In production of ultra-high performance concrete.
- Ready - mixed concrete.
- In the production of self-compacting and self-consolidating concrete (SCC).
- 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.
- Pre-cast concrete.
- 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.
- It provides workability to fresh concrete without causing segregation.
- High density and impermeable concrete through very high water reduction.
- Improves shrinkage and creep behaviors.
- Let the concrete mixing designs to be formed that have low water/cement rates.
- Improved pumpability resulting in lower pump operating pressures
- High early and ultimate compressive strengths.



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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- Increases hardened concrete endurance against environmental effect conditions.
- Does not include chloride ions. Does not cause paraphernalia corrosion.
- It provides long term consistency protection to fresh concrete. This allows the fresh concrete mix to be transported over long distances and pump concrete into high places.

Use

HighFlow PCE4880 is ready to use as liquid for fresh concrete mix. It is recommended that it is added to mixing water at ready-mixed concrete production station.

Dosage

The dosage of HighFlow PCE4880 is 0.50 to 2.0 Kg per 100 kg of cementitious materials in the mix, including GGBFS, PFA or micro silica.

Method of use

HighFlow PCE4880 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 PCE4880 complies with ASTM C494, Type F & EN934-2 Chart 3.1, 3.2.

Technical Data

Property:	
Colour	Yellowish to brownish liquid
Freezing point	-16 °C approximately
Specific gravity	1.07 ± 0.02

Effects of over dosage

Over dosing of HighFlow PCE4880 will cause the following:

- Significant increase in retardation.
- Increase in workability.

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Cleaning

HighFlow PCE4880 should be washed with fresh cold water.

Packaging

HighFlow PCE4880 is available in 30Kg pail, 250Kg drums & 1000 Kg IBC spill. In the original packaging, +5 °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 PCE4880 is water based and is nonflammable.

Safety information

The additive must be kept away from the skin and eyes. In case of any contact, it must be washed with water. When contacted with eyes one must immediately rinse it with water and medical support must be taken. Protective goggles / gloves / mask should be used during the usage of the admixture.

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