

HighFlow PC700

High range water reducing concrete admixture

Product Description

HighFlow PC700 is a multi-component, high performance concrete additive in liquid form for producing high quality concrete at very low temperatures. HighFlow PC700 shortens the setting time of concrete mold for receiving early, non-corrosive- chlorine- free, reinforced and unreinforced of all kinds, particularly a liquid chemical used in the precast concrete industry.



Areas of Application

- Concrete casting at low temperatures.
- Expected overnight frost.
- Early high strength concrete in the desired.
- High strength concrete.
- Quick mold in all type of concrete need to be taken, like pre-cast and tunnel form constructions.
- In the prefabricated sector.
- Can be used in hot weather for obtaining an early strength, which will enable early strike off shutter and molds.
- Pumpable concrete.
- To produce high quality concrete of improved durability and water tightness.



Advantages

- High early strength.
- High reduction in water without loss of workability.
- Improved workability without increase in water content.
- Low water / cement ratio concrete.
- Increased frost resistance.

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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- It is used in summer for obtaining an early strength which will enable early strike off shutter and molds.
- Minimizing segregation problems by improving cohesion.
- Improved early and long term strength.
- Does not contain chlorine. No damage to concrete reinforcement.
- Usability with light and regular types of aggregate.
- In cold weather workability.

Dosage

Typical Dosage is between 1% to 2% of cement content.

Technical Data

Technical Properties:	
Color:	Clear yellowish
Freezing point:	-18C ⁰
Specific gravity:	1.20±0.005 @ 25C ⁰
Chloride content: BS5075	Nil
Air entrainment	Typically less than 2% additional air is entrained above control mix at normal dosages

Setting and workability

HighFlow PC700 contribution to the pot life is short and should be determined experimentally accelerator effective workability in the field.

Accordance

HighFlow PC700 suitable to use with the following substances;

- Homogenous and obtain better quality concrete.
- Plastic series super plasticizer concrete mixing water using the additive is reduced 10 – 20%.
- Environmental freezing of concrete using air entraining – thaw cycle durability is improved.
- Micro silica, fly ash and slag additive.
- Compatible with all cement types and classes.

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Standards

HighFlow PC700 complies with the following specification:

- EN 934-2 Chart 6
- ASTM C494 type C .
- BS 5075

Effects of over dosage

Over dosing of HighFlow PC700 will cause the following:

- Significant increase in retardation.
- Increase in workability.

Packaging

HighFlow PC700 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.

Cleaning

HighFlow PC700 should be washed with fresh cold water immediately.

Storage

Store in dry conditions. HighFlow PC700 has a minimum shelf life of 24 months from date of manufacture if stored properly in its original unopened packing.

Cautions

Health and safety

Skin and eye contact should be avoid, should be washed with plenty of water. If swallowed several glasses of water should be drunk immediately medical attention. Wash immediately with plenty of water in contact with eyes. Gloves, protective masks and goggles should be used.

Fire

HighFlow PC700 is water based and is nonflammable.

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