

Talrakplast® PC3577

PCE based hyper plasticizer for self compacting and high early strength concrete



The Construction Alchemists

Description

Talrakplast® PC3577 is a new generation admixture based on modified polycarboxylate ether. It is specially developed for self compacting and high early strength concrete to meet the stringent specification of concrete both in the plastic state and hardened state. It is compatible with all types of cements including pozzolanic but not high alumina cement.

Features & Benefits

- Produces concrete that does not need mechanical compaction.
- High early & ultimate strengths.
- Improved adhesion to reinforcing and pre-tensioned steel.
- Better resistance to carbonation and other aggressive atmospheric agents, than normal concrete.
- Better impermeability, increased durability.
- Reduced shrinkage and creep.

Primary Application

- Production of self compacting concrete (SCC) / self dynamic concrete (SDC).
- Production of concrete with High early strength & ultimate strength
- Precast & Pre-stressed concrete
- Concrete containing pozzolans such as PFA and SCM like microsilica, GGBFS
- Long workability retention

Standard Compliance

Talrakplast® PC conforms to ASTM C494 Type 'F' and 'G' also ISO 9103:1999.

Technical Properties

Appearance	Pale yellow/light brown liquid
Specific Gravity	1.1 - 1.2
pH	7 - 8
Chloride Content	< 0.2%

Application Instructions

Talrakplast® PC3577 is a ready to use liquid which is dispensed into the concrete after water is added. The addition of Talrakplast® PC3577 to dry aggregate or cement is not recommended.

Thorough mixing is essential and a minimum mixing time after the addition of the Talrakplast® PC3577 shall be for 60 seconds.



Talrak Construction Chemicals Pvt. Ltd.

An ISO 9001:2015 Certified Company

Works:

Plot No. 115-A, 1st Phase. Harohalli Industrial Area,
Kanakapura Taluka - 562 112. Ramanagar Dist.
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Dosage

Talrakplast® PC3577 is supplied as ready to use materials. Optimum dosage is best determined by site trials. 0.3% to 1% by weight of total cementitious binders is a guiding dosage.

Over Dosing

A severe over dose of admixture can result in extension of initial and final setting time, bleeding/segregation of mix, quick loss of workability and increased plastic shrinkage. A slight over dose may not adversely affect the ultimate strength of the concrete.

Workability

Talrakplast® PC3577 ensures that rheoplastic concrete remains workable in excess of 45 minutes at 25°C depending on temperature, cement, nature of aggregates, the method of transport, initial workability etc.

Corrosivity

Talrakplast® PC3577 admixture will neither initiate nor promote corrosion of reinforcing steel embedded in concrete or prestressed concrete or concrete placed on steel sections in composite constructions.

Estimating Packaging

Talrakplast® PC3577 supplied in 20kg & 230Kg barrel.

Storage

Talrakplast® PC3577 has a minimum shelf life of 12 months if kept in the original, unopened container. If stored in high temperature and/or high humidity conditions the shelf life may be reduced.

Precautions

Health and Safety Instructions

Talrakplast® PC3577 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.

Important note :

Talrak products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Talrak endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

Ref : TCC/TDS/CA05 - R3