

NOVATECH 600 PQC

High Performance PCE based Admixture for Wide Range of Pavement Quality Concrete

Description

Novatech 600 PQC is a unique combination of a new generation superplasticiser based on polycarboxylic ether polymer with long lateral chain and is supplied as a brown liquid instantly dispersible in water. **Novatech 600 PQC** has been specially formulated to give high water reductions of up to 25% without loss of workability or to produce high quality concrete of reduced permeability.

Recommended

- ✓ Best suitable for PQC
- ✓ To produce long and lifetime pavement
- ✓ To produce all grades of concrete by substantial reduction in water resulting in low permeability and high flexural strength
- ✓ To produce workability for concrete during placing
- ✓ Long distance transport concrete

Advantages

- ✓ Improved workability – Easier, quicker placing and compaction
- ✓ Increased strength – Provides precast concrete exceptional early strength with the benefit of greater water reduction capacity
- ✓ Improved quality – Close textured, denser concrete with less porosity and therefore more resilient
- ✓ Higher cohesion – Reduced bleeding and segregation risk helps with concrete pumping
- ✓ Chloride-free – Safe when used with marine aggregates and sulphate-resistant cements in prestressed concrete

Standard Compliance

Novamix 600 PQC complies with IS 9103:1999 (RA 2018) and BS 5075 Part 3 and conforms to ASTM C494 Type F and Type A depending on the dosage used.

Technical Properties

Appearance	Light Brown Liquid
Specific gravity @ 25°C, %	1.08 ± 0.02
pH*	≥ 6
Chloride content	Nil to IS 456

** The uniformity parameters like specific gravity, pH, Chloride content, etc., will vary based on the specific customer requirements and mix-design. Please refer to our Material Test Certificate (MTC) issued for specific products and configuration measuring our product parameters that will constantly and consistently be administered. **

Compatibility

Novatech 600 PQC is compatible with all types of cement except high alumina cement.

Compressive strength

Early strength is increased up to 20% if water reduction is taken advantage of. Generally, there is improvement in strength upto 20% depending upon W/C ratio and other mix parameters.

Workability

Novatech 600 PQC is capable of producing flowing concrete without the need for compaction. To achieve a highly workable mix without segregation, a few small adjustments might be necessary.

Dosage

The optimum dosage of **Novatech 600 PQC** can be determined only after trials. Rate of addition is generally in the range of 0.3% to 1.3% by weight of cementitious material.

Effects of Overdosage

Overdosage may cause delayed setting and segregation.

Packaging

230 kg HDPE barrels and in bulk tankers on request.

Shelf life & Storage

Novatech 600 PQC has a minimum shelf life of 12 months provided the temperature is kept within range of 2°C and 50°C.

Fire

Novatech 600 PQC is nonflammable.

Precautions

Not to be stored at high temperatures for long periods. Should be protected from frost. It is non-toxic and formulated from chemicals which present no fire or health hazards. Spillages should be washed down immediately with water.

Safety

Before use, refer to the Material Safety Data Sheet (MSDS). The MSDS is available on www.ccichemicals.in or contact us at info@ccichemicals.in.

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