

NOVATECH 500

High Performance Admixture for Pumpable Concrete

Description

Novatech 500 is a new generation superplasticizer developed primarily for use in pumped concrete. It contains polycarboxylate ether polymers and is specially formulated to give exceptionally high-water reduction and significantly improved slump retention compared to conventional superplasticisers.

Recommended

- ✓ Pumped concrete
- ✓ High fluidity concrete
- ✓ Highly durable concrete
- ✓ Ready-mixed concrete
- ✓ Long distance transport concrete

Advantages

- ✓ Good dispersion even in mixes with high fines
- ✓ High workability for longer periods
- ✓ Lower pumping pressure
- ✓ Resistance to segregation even at high workability extended setting with longer workability
- ✓ Reduced water content for a given workability – Water reduction upto 26% to 28% with optimum dosage of admixture
- ✓ Reduced rate of rate of workability loss normally associated with superplasticizer.

Standard Compliance

Novatech 500 complies with IS 9103:1999, BS 5075 and ASTM 494 Type F and G Admixtures depending on dosage.

Compatibility

Novatech 500 is suitable for use with all types of Portland cement, SR cement and cement replacement materials such as PFA, GGBFS and micro silica.

Dosage

Novatech 500 for optimum dosage can only be established after trials, considering the rheological characteristics and the required mechanical performances. Rate of addition is generally the range of 0.3% to 1.5% by weight of cementitious material.

** Higher dosage can be used if agreed and allowed by clients/consultants.

Technical Properties

Appearance	Light Amber liquid
Air Entrainment	≤ 1.5% over control mix
pH	≥ 6
Chloride content	Nil (As per BS 5075)

** 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 be administered. **

Effects of Over dosage

A severe over dosage of **Novatech 500** can result in the following:

- ✓ Reduced permeability
- ✓ Long extension of initial and final set
- ✓ Increase in air entrainment
- ✓ Bleed/segregation of mix, quick loss of workability

A slight overdosing may not adversely affect the ultimate strength of the concrete and can achieve higher strengths than normal concrete, provided it is properly compacted and cured. Due allowance should be made for the effect of fluid concrete pressure on formwork, and stripping times should be monitored.

Packaging

230 kg HDPE barrels or in bulk tankers on request.

Shelf life

If stored in unopened containers at normal ambient temperatures, it has a shelf life of approximately 12 months.

Freezing point

Approximately, -2°C.

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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