

NEXPLAST 400 NP

High Performance Superplasticiser based on Polycarboxylic technology

NEXPLAST 400 NP is differentiated from the conventional type Super-plasticiser in that it is based on a unique Polycarboxylic ether polymer with lateral chains. This greatly improves the cement dispersion. At the starting of the mixing process an electrostatic dispersion occurs, but the presence of the lateral chains, linked to the polymer backbone, generates a stearic hindrance which stabilizes the cement particle's capacity to separate and disperse. This mechanism considerably reduces the water demand in flowable concrete.

Uses

NEXPLAST 400 NP is a high performance mid-range super-plasticiser intended for applications where increased workability retention is of prime importance and it has been developed for use in

- Concrete made with GGBS
- Self-compacting concrete
- Ready mix concrete
- Pumped concrete
- Concrete required for long workability retention
- High performance concrete

Benefits:

- Suitable for hot weather conditions
- Increased early and ultimate compressive strengths
- Increased flexural strength
- Adhesion to reinforcing and pre-stressing steel
- Better resistance to carbonation
- Lower permeability
- Better resistance to aggressive atmospheric conditions
- Reduced shrinkage and creep
- Increased durability

Technical Support:

NEXA provides a technical advisory service for onsite assistance and advice on mix design, admixture selection and evaluation trials and dispensing equipment.

Properties:

Specific Gravity: 1.03 - 1.14

Appearance: Pale yellow liquid/Colorless Liquid

pH: 7.0 (min. 6.0 max. 8.0)

Chloride content: Nil

Dosage:

The optimum dosage of NEXPLAST 400 NP to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. As a general guideline, the dosage ranges shall vary from 0.5 to 1.2 kg / 100 kg cementitious material.

Test Parameters:

ASTM C 494 Type G

EN 934-2: T3.1/3.2

IS 9103:1999

Use at other dosages:

Dosage outside the normal range quoted above can be used to meet particular mix requirements.

Effects of overdosing:

Overdosage may cause delay in the setting time and segregation.

Instructions for use:

Compatibility:

NEXPLAST 400 NP should not be used in conjunction with any other admixture unless prior approval is obtained from the NEXA office.

NEXPLAST 400 NP is suitable for use with all types of Portland cements and cement replacement materials such as PFA, GGBFS, SRC and micro silica.

Mixing:

NEXPLAST 400 NP is ready to use liquid which is dispensed into the concrete together with mixing water. The plasticizing effect and water reduction are higher if admixture is added to the damp concrete after 60-80% of the mixing water has been added. The addition of NEXPLAST 400 NP to dry aggregate and cement is not recommended. In some instances, for e.g. addition to ready mix concrete on the site, NEXPLAST 400 NP can be added directly in the truck mixer and mixed at maximum speed for an extra 5 minutes.

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Application:

The means of application of the concrete must be such that the concrete is not poured from a great height into moulds and form work. The use of a sleeve or forced filling is strongly advised and recommended. Health and safety instructions NEXPLAST 400 NP does not fall into 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. For further information consult the Material Safety Data sheet available for this product.

Fire:

NEXPLAST 400 NP is water based and non-flammable.

Cleaning and disposal:

Spillages of NEXPLAST 400 NP should be absorbed onto sand, earth or vermiculite and transferred to suitable plastic containers. Remnants should be hosed down with the large quantities of water. The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

Storage:

NEXPLAST 400 NP has a minimum shelf of 12 months provided the temperature is kept within the range of 5°C to 50°C. If the temperature of the product falls outside this range, then please contact to NEXA office for advice.

Packing:

NEXPLAST 400 NP is available in 220kg/250 kg barrel.

Other segments: ● Concrete Admixtures ● Grouts & Anchors ● Repair & Rehabilitation ● Waterproofing ● Bonding Agent

Disclaimer: The information contained in this document is true and accurate to the best of our knowledge and is based on our experience & test results. It is always the Company's endeavour to give true and accurate information however as it does not have any direct and/or continuing control on the use of the Products, the Company cannot accept any liability, direct or indirect as a consequence of the use of Products. In the event of any doubt upon any critical parameter it is advisable to seek clarification from our technical representative.

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