

REC NEPHTHAPLAST 110

High-Range Water Reducing / Retarding / Superplasticizing Admixture

PRODUCT

Rec Nephthaplast 110 is formulated from synthetic complex co-polymers and designed as a multi-purpose super-plasticizer. This special formulation enables

Rec Nephthaplast 110 to retain concrete workability for longer time at low w/c at hot weather conditions. It can maintain good mixture appearance without segregation or bleeding. At intentionally higher dosages, **Rec Nephthaplast 110** has the effect of a set retarder.

PROPERTIES

- The high workability produced is recommended for congested reinforced structures
- Extended setting time allows effective hot-weather concreting
- Allows quicker consolidation
- Improves surface appearance
- Improves pumpability
- Compatible with concrete containing pozzolanic materials

SCOPE OF USE

Rec Nephthaplast 110 is formulated to ensure fluidity concrete remains workable for more than 2 hours at high temperature. Ideal for concrete dams, locks, road works, architectonic concrete, light or heavy prefabrication, ready-mix concrete, pumped concrete, and piling.

CHARACTERISTICS

Appearance	Liquid
Color	Brown
Specific gravity at 20°C	1.225 ± 0.01
Chloride content	Zero to BS 5075
Air entrainment	Up to 2.0% depending on dosage rate and concrete proportioning

APPLICABLE STANDARDS

Rec Nephthaplast 110 complies with:
ASTM C 494 – Type D & G.
BS 5075 Part 1, BS EN 934, Part 2.

INSTRUCTION FOR USE

Rec Nephthaplast 110 is totally miscible in water. It is to be added to the concrete mix during the mixing cycle at the same time as the mixing water. No extension to normal mixing time is necessary.

DOSAGE

Trials should be conducted to determine the optimum dosage of **Rec Nephthaplast 110** for a particular mixture. A dosage of 600 to 2200 ml per 100 kg of cementitious material is recommended.

Dosage above the recommended values can be practiced up to 2450 ml per 100 kg of cementitious materials. Still, the required dosage for a specific job with controlled delay in setting and workability should be determined by in-situ trials.

EFFECTS OF OVER DOSING

A severe over dose of **Rec Nephthaplast 110** will result in the following:

- Delay in setting
- Increase in air content
- Higher workability

COMPATIBILITY

Rec Nephthaplast 110 can be used in all types of Portland cement, sulfate resisting cement and cementitious materials. **Rec Nephthaplast 110** should be dispensed directly into the mixer and should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing **Rec Nephthaplast 110**, they must be dispensed separately. Please consult the company's Technical Dept. for advice.

SPECIFICATION CLAUSE

Rec Nephthaplast 110 is a high-range water reducing and retarding plasticizing concrete admixture.

Rec Nephthaplast 110 can be used in all concrete as mentioned at dosage between 450 ml to 2000 ml per 100 kg of cementitious material in accordance with the manufacturer instructions.

Specific Gravity at 20°C: 1.225 ± 0.01

Complying with ASTM C 494 Types D & G.

Composition: High molecular weight refined synthetic complex co-polymers derivatives and other refined chemicals.

DISPENSING

It is preferable that liquid admixtures for concrete should be introduced into a mixer by means of automatic dispensing equipment.

PACKAGING

Rec Nephthaplast 110 is supplied in:

Bulk, barrels.

Storage tanks can be provided for bulk use.

STORAGE

Rec Nephthaplast 110 can be stored up to 1 year from manufacturing date under cover, out of direct sunlight and protected from extreme temperatures.

HEALTH & SAFETY



REC NEPHTHAPLAST 110

In case of frost, the product recovers its properties after progressive thawing and homogenizing by agitation. In case of contact with skin or eyes, rinse thoroughly with water. If irritation persists, seek medical attention. If swallowed, do not induce vomiting and seek medical attention.

QUALITY STATEMENT

All our products are manufactured to comply with our internal QA/QC program and quality management system to ensure consistency and quality.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

NOTE

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