

# REC NEPHTHAPLAST 112

## High-Range Water Reducing / Retarding / Superplasticizing Admixture

### PRODUCT

**Rec Nephthaplast 112** is formulated from synthetic complex co-polymers and designed as a multi-purpose super-plasticizer. This special formulation enables **Rec Nephthaplast 112** to retain concrete workability for a 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 112** 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 FLY ASH, silica fume and GGBS

### SCOPE OF USE

**Rec Nephthaplast 112** 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	1.210 ± 0.01
Chloride content	Zero to BS 5075
Air entrainment	Up to 1.5% depending on dosage rate and concrete proportioning

### APPLICABLE STANDARDS

**Rec Nephthaplast 112** complies with:  
ASTM C 494 – Type D & G.  
BS 5075 Part 1, BS EN 934, Part 2.

### INSTRUCTION FOR USE

**Rec Nephthaplast 112** is totally miscible in water. It is to be added to the concrete mixture 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 112** for a particular mixture. A dosage of 500 to 2300 ml per 100 kg of cementitious

materials 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 112** will result in the following:

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

### COMPATIBILITY

**Rec Nephthaplast 112** can be used in all types of portland cement, sulfate-resisting cement, and cementitious materials. **Rec Nephthaplast 112** 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 112**, they must be dispensed separately. Consult the company's technical dept. for advice.

### SPECIFICATION CLAUSE

**Rec Nephthaplast 112** a high-range water reducing and retarding plasticizing concrete admixture.

**Rec Nephthaplast 112** can be used in all concrete as mentioned at dosage between 500 to 2300 ml per 100 kg of cementitious material in accordance with the manufacturer's instructions.

Specific Gravity at 20°C: 1.210 ± 0.01

Complying with ASTM C 494 Types D & G.

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

### STORAGE

**Rec Nephthaplast 112** can be stored up to 1 year from manufacturing date under cover, out of direct sunlight and protected from extreme temperatures.

### HEALTH & SAFETY

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

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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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