

# REC NEPHTHAPLAST 78

## High-Range Water Reducing / Superplasticizing Admixture

### PRODUCT

**Rec Nephthaplast 78** is a superplasticiser based on synthetic polymers, that has a strong dispersing power over the fine particles of concrete and thus allows a higher mechanical resistance with high early strength of the hardened concrete.

**Rec Nephthaplast 78** does not delay the setting of concrete and is capable for higher water reduction in concrete mix. **Rec Nephthaplast 78** works on a very low water/ cementitious ratio with the presence of supplementary materials such as GGBS and Silica Fume.

### PROPERTIES

- Increase concrete cohesion
- Increase compressive, tensile and flexural strengths.
- Produces flowable concrete
- Can be used to gain economies due to a possible cement reduction.

### SCOPE OF USE

**Rec Nephthaplast 78** is recommended for all cement types in the following areas:

- Heavily reinforced concrete works.
- Paving and industrial floor.
- Ready mixed concrete.
- Concrete with low W/CM Ratio.
- Precast concrete.
- Hollow core precast concrete elements.
- Improvement of concrete workability on site.
- Reduction in cement content

### CHARACTERISTICS

Appearance	Liquid
Color	Brownish
Specific gravity at 20°C	1.220 ± 0.005
Chloride content	Zero to BS 5075
Air entrainment	less than 1% additional air is entrained.

### APPLICABLE STANDARDS

**Rec Nephthaplast 78** complies with:  
ASTM C 494 – Type G.  
BS 5075 Part 1, BS EN 934, Part 2.

### INSTRUCTIONS FOR USE

**Rec Nephthaplast 78** 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. Do not add to dry cement.

### DOSAGE

Trials should be conducted to determine the optimum dosage of **Rec Nephthaplast 78** for a particular mix.

A dosage of 600ml to 2250ml per 100kg of cementitious materials is recommended. This may be changed to higher dosage in high ambient and mix temperature conditions.

### EFFECTS OF OVER DOSING

A severe over dose of **Rec Nephthaplast 78** will result in the following:

- Delay of the initial and final setting of the concrete mix.
- Very Slight increase in air entrainment.
- Increase in workability.

### COMPATIBILITY

**Rec Nephthaplast 78** can be used in all types of Portland and sulfate resisting cement including supplementary cementitious materials. **Rec Nephthaplast 78** 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 78** they must be dispensed separately. Consult the company Technical Dept. for advice.

### SPECIFICATION CLAUSE

**Rec Nephthaplast 78**, is a high range water reducing concrete admixture.

**Rec Nephthaplast 78** can be used in all concrete mixes as mentioned, at dosage between 800ml and 2250 ml per 100kg of cementitious materials in accordance with the manufacture's instructions.

### DISPENSING

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

### PACKAGING

**Rec Nephthaplast 78** is supplied in:

Bulk, barrels

Storage tanks can be provided for bulk use.

### STORAGE

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.



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## 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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