

REC NAPHTHAPLAST N78

High-Range Water Reducing/Retarding /Superplasticizing Admixture

Description

REC NAPHTHAPLAST N78 is a super plasticizer 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 NAPHTHAPLAST N78** is capable for higher water reduction in concrete mix. **REC NAPHTHAPLAST N78** works on a very low water/ cement ratio with the presence of supplementary materials such as GGBS and Silica Fume.

PROPERTIES

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

SCOPE OF USE

REC NAPHTHAPLAST N78 is recommended for all types of Portland cement and sulfate resisting cement in the following areas:

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

Technical Information

Appearance	Liquid
Color	Brown
Specific gravity at 25°C	1.220 ± 0.005
Chloride content	Nil (BS 5075)
Air Entrainment	Less than 1% additional air is entrained.

APPLICABLE STANDARDS:

REC NAPHTHAPLAST N78 complies with ASTM C 494 – G, BS 5075 & BS EN 934.

INSTRUCTIONS FOR USE

REC Naphthaplast N78 is totally miscible in water. No extension to the batching time is necessary. Do not add to dry cement. **REC Naphthaplast N78** can be used on site to produce fluid concrete to a required workability. Make sure that the concrete is agitated for not less than 2 minutes at 15- 20 rpm before casting.

DOSAGE

Trials should be conducted to determine the optimum dosage of **REC Naphthaplast N78** for a particular mixture. A dosage of 0.4-2.5% per 100 kg of cementitious material is recommended. Further the required dosage for a specific job with controlled delay in setting and workability should be determined by in-situ trials.

EFFECT OF OVER DOSE

Severe over dose of **REC Naphthaplast N78** will result in the following:

- Delay in initial and final setting Concrete Mix.
- Very increase in air entrainment.
- Higher workability.
- Impair consistency & cohesion
- Higher Ultimate strength when curing practices are implemented as per ACI 308R.

COMPATIBILITY

REC Naphthaplast N78 can be used in all types of Portland and sulfate-resisting cements, including those containing supplementary cementitious materials. **REC Naphthaplast N78** 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 Naphthaplast N78** they must be dispensed separately. Consult the company's technical department for advice.

DISPENSING

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

PACKAGING

REC Naphthaplast N78 can be supplied in drums and tanks.

STORAGE

Up to 2 years when stored in accordance with manufacturer's instructions.

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 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. This Data Sheet version is the latest one. The company may modify it without any prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's head office located in Lahore.

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