

REC NAPHTHAPLAST N75

High-Range Water Reducing/Retarding /Superplasticizer ADMIXTURE

Description

REC NAPHTHAPLAST N75 is a chloride-free, high-range superplasticizer based on synthetic polymers that has a strong dispersing power over the fine particles of concrete, thus allowing the concrete to achieve higher mechanical properties. **REC NAPHTHAPLAST N75** secures a powerful deflocculating and dispersing action of cement, which facilitates the production of fluid and high flow ability concrete without segregation.

PROPERTIES

- Produces concrete of similar workability up to 40% less water.
- Increase concrete cohesion.
- Increase compressive, tensile, and flexural strengths.
- Produces flowable concrete.
- High strength, especially at low W/C, can be significantly increased.
- High workability-ease of placing and compaction without segregation.
- Good adhesion - ease of pumping.
- Good workability - excellent surface appearance.
- Minimal bleed water - excellent concrete quality.

SCOPE OF USE

REC NAPHTHAPLAST N75 is recommended for all types of Portland cement and sulfate resisting cement in the following areas:

- Heavily reinforced concrete works
- Paving and industrial floor
- Slipform concrete
- Ready mixed concrete
- All concrete requiring a fluid consistency
- Concrete with low W/C
- Precast concrete
- Works well with silica fume, fly ash and slag cementitious replacement
- Structures with close reinforcement where vibratory efforts are ineffective
- Improvement of concrete workability on site.

Technical Information

Appearance	Liquid
Color	Dark Brown
Specific gravity at 25°C	1.220 ± 0.03
Chloride content	Nil (BS 5075)

Air Entrainment	Up to 3.0% depending on dosage rate and concrete proportioning.
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APPLICABLE STANDARDS:

REC Naphthaplast N75 complies with ASTM C 494 – Type D&G, BS 5075, BS EN 934, & ASTM C1017 Type II.

INSTRUCTIONS FOR USE

REC Naphthaplast N75 is totally miscible in water. No extension to the batching time is necessary. Do not add to dry cement. **REC Naphthaplast N75** 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 N75** 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.

Admixture demand varies with w/b of the concrete, cement type, pozzolanic materials and ambient temperature.

Trials are to be conducted prior to use in order to determine required performance, including workability retention, setting, and strength development.

EFFECT OF OVER DOSE

Severe over dose of **REC Naphthaplast N75** will result in the following:

- Delay in setting.
- Increase in air content.
- Higher workability.
- Impair consistency & cohesion
- Higher Ultimate strength when curing practices are implemented as per ACI 308R.

COMPATIBILITY

REC Naphthaplast N75 is compatible with all types of Portland cement, class C and F fly ash, silica fume, ground granulated blast furnace slag, fibers and approved air entraining, accelerating, retarding, and high-range water-reducing admixtures. For best results, each admixture must be dispensed separately into the concrete mix. **REC Naphthaplast N75** is compatible with naphthalene sulfonate and melamine sulfonate-based superplasticizers.

Consult Reckon Chemical'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 N75 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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