

REC NAPHTHAPLAST N123

WATER-REDUCING AND RETARDING SUPER PLASTICIZER

DESCRIPTION

REC NAPHTHAPLAST N123 is composed of a modified naphthalene and lignosulfonate-based polymer. **REC NAPHTHAPLAST N123** is a superplasticizer that enables the increase in concrete fluidity over extended period of time without mitigating homogeneity and resistance to segregation.

PROPERTIES

REC NAPHTHAPLAST N123 acts simultaneously on the following:

- Dispersing of fine particles
- Cohesion of fresh concrete
- Setting of concrete

When using dosage lower than those necessary for fluidification **REC NAPHTHAPLAST N123** enables preparation of flowable concrete with attractive surface appearance and high mechanical properties. Concrete made with **REC NAPHTHAPLAST N123** can be proportioned with lower cement content per m³.

SCOPE OF USE

REC NAPHTHAPLAST N123 is recommended for all cement types in the following areas:

- Ready to use concrete
- Heavily reinforced concrete works
- Incubated concrete
- Paving and industrial floors
- Pumped concrete
- Fluid concrete for long slump retention.

TECHNICAL INFORMATION

Appearance	Liquid
Color	Brown
Specific gravity at 25°C	1.091 ± 0.015
Chloride content	Nil (BS 5075)
Air Entrainment	Up to 2.0% depending on dosage rate and concrete proportioning.

APPLICABLE STANDARDS:

REC NAPHTHAPLAST N123 complies with ASTM C 494 Type D & G, ASTM C1017 & BS 5075.

INSTRUCTIONS FOR USE

REC NAPHTHAPLAST N123 is totally miscible in water. No extension to the batching time is necessary. **REC NAPHTHAPLAST N123** 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. For high early strength of concrete, use a lower w/c and a higher **REC NAPHTHAPLAST N123** dosage.

DOSAGE

Trials should be conducted to determine the optimum dosage of **REC NAPHTHAPLAST N123** for a particular mixture. A dosage of 0.4-2.6% per 100 kg of cementitious material is recommended. Further, other dosages are acceptable with prior testing and confirmation of the desired performance with specific materials being used.

EFFECT OF OVER DOSE

Severe over dose of **REC NAPHTHAPLAST N123** might result in the following:

- Delay in initial and final setting time.
- Increase in air content
- Higher workability

SPECIAL ADVICE

1. COMPOSITION OF CONCRETE

The composition of the concrete before being plasticized must be established with care. The grain size of aggregates must include a proportion of fine elements, comparable to those of pumped concrete.

2. MAINTENANCE OF FLUIDITY

The delay during which the plasticized concrete remains fluid is variable according to the temperature, to the original consistency of concrete, to the nature and to the dosage of cement, etc. **REC NAPHTHAPLAST N123** allows prolonged fluidity retention, which is proportional to the dosage of the admixture. Previous in- situ trials will allow the determination of the optimal dosage of

COMPATIBILITY

REC NAPHTHAPLAST N123 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. **REC NAPHTHAPLAST N123** can be used in all types of Portland cement, sulfate resisting cement and cementitious materials. **REC NAPHTHAPLAST N123** 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 N123**, they must be dispensed separately. Please 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 N123 can be supplied in pails, 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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