

REC NAPHTHAPLAST N96

Super Plasticizer - (For Low Water/Cement Concrete)

DESCRIPTION

REC NAPHTHAPLAST N96 is a superplasticizer based on selected polymers specifically designed for use with hydraulic binders. Its particular chemical structure is remarkably efficient: It has a strong dispersing action with the finer elements of concrete. This translates into an improvement of the workability of concrete. **REC NAPHTHAPLAST N96** is a catalyst of the hydration reactions of cement. It allows reaching higher mechanical properties. The use of **REC NAPHTHAPLAST N96** has no effect on the setting time of the concrete.

SCOPE OF USE

REC NAPHTHAPLAST N96 is recommended for all cement types in the following areas:

- Heavily reinforced concrete works.
- Paving and industrial floor.
- Ready-mix concrete.
- Precast concrete elements.
- Concrete placement at low temperatures.
- All concrete requiring fluid consistency.
- Concrete with low water/cement.

Technical Information

Appearance	Liquid
Color	Brown
Specific gravity at 25°C	1.15 ± 0.03
Chloride content	Nil (BS 5075)
Air Entrainment	Up to 2.0% depending on dosage rate and concrete proportioning.

PERFORMANCE:

Mechanical Resistance:

	24 Hours	7 days	28 Days
Control	9 MPa	30 MPa	45 MPa
REC NAPHTHAPLAST N96 (1 L / 100 kg cement)	10 MPa	36 MPa	52 MPa

Plasticity Improvement:

	Slump	Slump Gain
Control	70 mm	
REC NAPHTHAPLAST N96 (1 L / 100 kg cement)	180 mm	ΔH = 140 mm

APPLICABLE STANDARDS:

REC NAPHTHAPLAST N96 complies with ASTM C 494 Type F, & BS 5075.

INSTRUCTIONS FOR USE

REC NAPHTHAPLAST N96 is totally miscible in water. **REC NAPHTHAPLAST N96** can be added to the concrete just before pouring it. Mix together no less than 2 minutes before casting. The maximum efficiency of **REC NAPHTHAPLAST N96** will be determined after trials.

DOSAGE

Trials should be conducted to determine the optimum dosage of **REC Naphthaplast N96** for a particular mixture. A dosage of 0.5-2.6% 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 N96** will result in the following:

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

COMPATIBILITY

REC Naphthaplast N96 can be used in all types of Portland cement, sulfate resisting cement and cementitious materials. **REC Naphthaplast N96** 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 N96**, 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 N96 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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