

REC NAPHTHAPLAST N124

SUPERPLASTICIZER FOR LOW W/C CONCRETE

DESCRIPTION

REC NAPHTHAPLAST N124 is a synthesizing polymer from the family of poly naphthalene, specifically designed for use with hydraulic binders. Its particular chemical structure is remarkably efficient. It has a strong dispersant action with the finer elements of concrete. This translates into an improvement of concrete workability. **REC NAPHTHAPLAST N124** is a catalyst of the hydration reactions of cement. It allows reaching higher mechanical strength. The use of **REC NAPHTHAPLAST N124** has no effect on setting time of concrete.

SCOPE OF USE

REC NAPHTHAPLAST N124 is recommended for all cement types in the following areas:

- Heavily reinforced concrete works
- Paving and industrial floor
- Ready-mix concrete
- All concrete requiring a fluid consistency
- Concrete with low W/C.

TECHNICAL INFORMATION

Appearance	Liquid
Color	Brown
Specific gravity at 25°C	1.155 ± 0.02
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 N124 (1lit/100 kg cement)	10 MPa	36 MPa	52 MPa

PLASTICITY IMPROVEMENT

	SLUMP	SLUMP GAIN
Control	70 mm	
REC NAPHTHAPLAST N124 (1lit/100 kg cement)	180 mm	ΔH = 140 mm

APPLICABLE STANDARDS:

REC NAPHTHAPLAST N124 complies with ASTM C 494 Type F, ASTM C1017 & BS 5075.

INSTRUCTIONS FOR USE

REC NAPHTHAPLAST N124 is totally miscible in water. No extension to the batching time is necessary. **REC NAPHTHAPLAST N124** 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 N124** dosage.

DOSAGE

Trials should be conducted to determine the optimum dosage of **REC NAPHTHAPLAST N124** 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 N124** might result in the following:

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

SPECIAL ADVICE

Maintenance of fluidity

The time during which the concrete remains fluid is variable according to the ambient temperature, consistency of the concrete mixture, and to the nature and content of the cement.

COMPATIBILITY

REC NAPHTHAPLAST N124 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 N124** can be used in all types of Portland cement, sulfate resisting cement and cementitious materials. **REC NAPHTHAPLAST N124** 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 N124**, 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 N124 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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