

REC NAPHTHAPLAST N103

SUPERPLASTICIZER- HIGH RANGE WATER REDUCER

DESCRIPTION

REC NAPHTHAPLAST N103 is a liquid admixture based on naphthalene polymer associated with chemical synthesis products. **REC NAPHTHAPLAST N103** produces high workability concrete requiring little or no vibration during placement. **REC NAPHTHAPLAST N103** provides up to 25% reduction in free water without loss of workability, resulting in high-quality concrete of reduced permeability and increased early strength gain.

Properties

- As a superplasticizer for facilitating concrete placement.
- As a normal water-reducing admixture to enhance mechanical properties at all ages.
- Cement content optimized for desired mechanical strength.
- No segregation.
- High strength hardening accelerator.

SCOPE OF USE

REC NAPHTHAPLAST N103 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	1.13 ± 0.02
Chloride content	Nil (BS 5075)
Air Entrainment	Up to 2.0% depending on dosage rate and concrete proportioning.

APPLICABLE STANDARDS:

REC NAPHTHAPLAST N103 complies with ASTM C 494 Type F, ASTM C1017 & BS 5075.

INSTRUCTIONS FOR USE

REC NAPHTHAPLAST N103 is totally miscible in water. It can be added to the concrete just before casting. Mix with concrete for at least 2 minutes before casting.

DOSAGE

Trials should be conducted to determine the optimum dosage of **REC Naphthaplast N103** for a particular mixture. A dosage of 0.4-2.6% per 100 kg of cementitious material is recommended. Further the required dosage for a specific site with controlled delay in setting and workability should be determined by in-situ trials. Addition to any dry concrete mix is not recommended.

EFFECT OF OVER DOSE

Severe over dose of **REC Naphthaplast N103** will result in the following:

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

COMPATIBILITY

REC Naphthaplast N103 can be used in all types of Portland cement, sulfate resisting cement and cementitious materials. **REC Naphthaplast N103** 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 N103**, 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 N103 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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