

REC NAPHTHAPLAST N105

HIGH RANGE WATER REDUCING ADMIXTURE

DESCRIPTION

REC NAPHTHAPLAST N105 is a high range water reducing admixture. It may be added to the concrete at the job site or at the ready-mix concrete plant. Because **REC NAPHTHAPLAST N105** is formulated without added chlorides, it is recommended for pre stressed concrete. It is also very compatible with air entraining agents, water proofing agents and many other admixtures; however, each material should be added to the concrete separately. **REC NAPHTHAPLAST N105** provides excellent slump increase and retention in low water to cement ratio concrete.

Properties

- Increases concrete cohesion.
- Increases compressive, tensile, and flexural strengths.
- Produces high early strengths and can significantly increase mould utilization in pre cast works.
- Can be used to gain economies due to possible cement reduction.

SCOPE OF USE

REC NAPHTHAPLAST N105 is recommended to all types of cement in following areas:

- High performance concrete.
- General ready-mix concrete.
- Flatwork and mass concrete.
- High slump, flowable concrete.
- Heavily reinforced concrete works.
- Paving and industrial floor.
- Concrete with low water/cement.
- Pre cast concrete.
- Works well with silica fume and slag.
- Hollow core precast concrete elements.
- Reduction in cement content.

Technical Information

Appearance	Liquid
Color	Brown
Specific gravity at 25°C	1.170 ± 0.01
Chloride content	Nil (BS 5075)
Air Entrainment	Up to 2.0% depending on dosage rate and concrete proportioning.

APPLICABLE STANDARDS:

REC NAPHTHAPLAST N105 complies with ASTM C 494 Type F, ASTM C1017 & BS 5075.

INSTRUCTIONS FOR USE

REC NAPHTHAPLAST N105 No extension to the batching time is necessary. Do not add to dry cement. **REC NAPHTHAPLAST N105** 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 N105** dosage.

DOSAGE

Trials should be conducted to determine the optimum dosage of **REC Naphthaplast N105** 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 N105** will result in the following:

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

COMPATIBILITY

REC Naphthaplast N105 can be used in all types of Portland cement, sulfate resisting cement and cementitious materials. **REC Naphthaplast N105** 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 N105**, 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 N105 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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