

# REC NAPHTHAPLAST N107

## HIGH-RANGE WATER REDUCING/ SUPERPLASTICIZING ADMIXTURE

### DESCRIPTION

**REC NAPHTHAPLAST N107** is a superplasticizer based on naphthalene polymer that has a strong dispersing power over the fine particles of concrete, thus allowing the concrete to achieve higher mechanical properties and high early strength. **REC NAPHTHAPLAST N107** is capable for higher water reduction. **REC NAPHTHAPLAST N107** works on a very low W/CM with the presence of supplementary cementitious materials, such as GGBS and silica fume.

### Properties

- Increases concrete cohesion.
- Increases compressive, tensile, and flexural strengths.
- Produces flowable concrete.
- High strength, especially at low W/C, can be significantly increased.
- High workability-ease of placing and compaction without segregation.
- Good adhesion - ease of pumping.
- Good workability - excellent surface appearance.
- Minimal bleed water - excellent concrete quality.

### SCOPE OF USE

**REC NAPHTHAPLAST N107** is recommended to all types of cement in following areas:

- Heavily reinforced concrete works.
- Paving and industrial floor.
- Slipform concrete.
- Ready mixed concrete.
- All concrete requiring a fluid consistency.
- Concrete with low W/C.
- Precast concrete.
- Works well with silica fume, fly ash and slag cementitious replacement.
- Structures with close reinforcement where vibratory efforts are ineffective.
- Improvement of concrete workability on site.

### Technical Information

|                          |                                                                 |
|--------------------------|-----------------------------------------------------------------|
| Appearance               | Liquid                                                          |
| Color                    | Brown                                                           |
| Specific gravity at 25°C | 1.190 ± 0.2                                                     |
| Chloride content         | Nil (BS 5075)                                                   |
| Air Entrainment          | Up to 2.0% depending on dosage rate and concrete proportioning. |

### APPLICABLE STANDARDS:

**REC NAPHTHAPLAST N107** complies with ASTM C 494 Type D & G ASTM C1017 & BS 5075.

### INSTRUCTIONS FOR USE

No extension to the batching time is necessary. Do not add to dry cement. **REC NAPHTHAPLAST N107** 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 N107** dosage.

## **DOSAGE**

Trials should be conducted to determine the optimum dosage of **REC Naphthaplast N107** 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 N107** will result in the following:

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

## **COMPATIBILITY**

**REC Naphthaplast N107** can be used in all types of Portland cement, sulfate resisting cement and cementitious materials. **REC Naphthaplast N107** 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 N107**, 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 N107** 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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