

REC PLAST 317

WATER-REDUCING / RETARDING / PLASTICIZING ADMIXTURE

Description

REC PLAST 317 is a water reducing/retarding admixture which acts on the cement particles in a concrete mixture to make it more workable and helps maintain the workability for a considerable period. It helps to maintain cohesion and prevents segregation even on higher dosage.

PROPERTIES

- Allows the retention of original slump over time in addition to the normal properties of a plasticizer (higher slump and/or water reduction).
- Improves the density of the concrete and reduces capillary absorption.
- Increases the ultimate strength of the concrete.
- Reduces segregation and bleeding in concrete.
- Improves appearance of the concrete.

SCOPE OF USE

REC PLAST 317 is ideal to use in hot weather conditions where the slump retention over time is critical for transportation. It is also used to optimize the dosage of cement, especially in:

- Precast concrete
- Transported concrete
- Pipe prefabrication
- General reinforced concrete
- Ready-mix concrete
- Heavy prefabrication
- Pumped concrete

Technical Information

Appearance	Liquid (Dark Brown)
Specific gravity at 25°C	1.115 ± 0.01
Chloride content	Nil (BS 5075)
Air entrainment	Up to 2% depending on the admixture dosage and mixture proportioning

APPLICABLE STANDARDS

REC PLAST 317 complies with ASTM C494 – Type A & D, BS 5075 & BS EN 934.

INSTRUCTIONS FOR USE

REC PLAST 317 is totally miscible in water. It is to be added to the concrete during mixing cycle at the same time as the water. No extension to normal mixing time is required.

COMPATIBILITY

REC PLAST 317 can be used in all types of Portland and sulfate- resisting cements. For use with other cements contact the company's technical service department. **REC PLAST 317** 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 PLAST 317**, they must be dispensed separately. Consult the Company's Technical Department for advice.

DOSAGE

Trials should be conducted to determine the optimum dosage of **REC PLAST 317** for a particular mixture. A dosage of 0.4-2.0% of 100 kg of cementitious materials is recommended. This may be changed to higher dosage in high ambient and mixture temperature conditions.

EFFECT OF OVER DOSE

Severe over dose of **REC PLAST 317** will result in the following:

- Slight delay of the initial and final setting of the concrete mixture
- Slight increase in air entrainment.
- Decreases early compressive strength.

Providing it is properly cured, the ultimate strength of the concrete will not be adversely affected and will generally be higher than that of the normal concrete.

DISPENSING

It is preferable that liquid admixtures for concrete should be introduced into a mixer by means of automatic dispensing equipment.

PACKAGING

Rec Plast 317 is supplied in barrels.

Storage tanks can be provided for bulk use.

STORAGE

REC PLAST 317 can be stored up to 1 year from manufacturing date if it is kept sealed, out of direct sunlight and protected from extreme temperatures.

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, and that 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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