

REC PLAST SP131

HIGH RANGE WATER REDUCING ADMIXTURE WITH WORKABILITY RETENTION PROPERTIES

DESCRIPTION

REC PLAST SP131 is formulated from selected polymers specially designed to enable the water content of the concrete to perform more effectively. This effect can be used to improve workability, to increase ultimate strengths or to facilitate a reduction in the cement content while sustaining mix properties.

REC PLAST SP131 has strong workability retention which helps in long distance and hot weather concrete deliveries, and is particularly suitable for ready-mix concrete.

PRIMARY APPLICATIONS

- Long distance and hot weather concrete deliveries for maximum retention of 6 hours.
- Where high workability retention and retardation are of prime importance.
- To produce high quality concrete of improved durability and water tightness.

FEATURES/BENEFITS

- Higher strength with same cement content.
- Minimizing segregation problems by improving cohesion.
- Excellent slump retention properties.
- Improved workability reduces placing and compaction problems.
- Cold joints can be avoided by extending initial and final concrete setting time.
- Saving cement without affecting strength specifications.
- More durable concrete by considerable reduction in permeability.

COMPATIBILITY

REC PLAST SP131 can be used with all types of Portland cement and cement replacement materials.

REC PLAST SP131 is compatible with other Reckon admixtures used in the same concrete mix.

if more than one type of admixture will be used in the concrete mix, they must be dispensed to the concrete separately.

STANDARDS

REC PLAST SP131 complies with ASTM C494, Type B, D and G, depending on the dose.

TECHNICAL INFORMATION

Colour:	Brown liquid
Freezing point:	≈ -2°C
Specific gravity:	1.17 ± 0.01
Chloride content: BS 5075	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

DIRECTIONS FOR USE

REC PLAST SP131 should be added to the concrete with the mixing water to achieve optimum performance.

An automatic dispenser should be used to dispense the correct quantity of **REC PLAST SP131** to the concrete mix.

DOSAGE

The guidance dosage for 01-1.5 hours is 0.90 – 1.20, for 2-4 Hours is 1.20 to 1.5 and for 4 to 6 hours is 1.5 to 1.8 liter per 100 kg of cementitious materials in the mix, including GGBFS, PFA or micro silica. Representative trials should be conducted to determine the optimum dosage of **REC PLAST SP131** to

meet the performance requirements by using the materials and conditions in actual use.

EFFECTS OF OVER DOSAGE

REC PLAST SP131 over dosage will cause the following:

- Increase in retardation.
- Increase in workability.

Ultimate concrete strength will not be adversely affected and will generally be increased provided that proper concrete curing is maintained.

SETTING TIME

Although the setting time is dependent on the dosage of **REC PLAST SP131**, the following factors should be considered:

- Retardation is increased with a lower level of tri- calcium in the cement.
- Lower temperatures will delay the setting time.
- SRC cement gives higher retardation level than ordinary cement.
- Using more than one type of admixture in the same concrete mix could affect the sitting time.
- Retardation level is increased when cement replacement materials are used in the concrete mix.

CLEANING

- **REC PLAST SP131** can be washed with fresh cold water.

PACKING

REC PLAST SP131 is available in 25 kg pails, 210 kg drums and 1000 kg bulks supply.

STORAGE

REC PLAST SP131 has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, Reckon Technical Department should be contacted for advice.

HEALTH & SAFETY

REC PLAST SP131 is not classified as hazardous material. **REC PLAST SP131** should not come into contact with skin and eyes.

In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

For further information refer to the Material Safety Data Sheet.

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