

# REC PLAST SP133

## HIGH RANGE WATER REDUCING ADMIXTURE WITH WORKABILITY RETENTION PROPERTIES

### DESCRIPTION

**REC PLAST SP 133** 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 SP 133** 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.
- Where high workability retention and retardation are of prime importance.
- To produce high quality concrete of improved durability and water tightness.

### FEATURES/BENEFITS

- 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 SP 133** can be used with all types of Portland cement and cement replacement materials. **REC PLAST SP 133** 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 SP133** complies with ASTM C494, Type B, D and G, depending on the dose.

### TECHNICAL INFORMATION

|                            |                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------|
| Color                      | Brown liquid                                                                            |
| Specific gravity           | 1.18 ± 0.02                                                                             |
| 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 SP 133** 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 SP 133** to the concrete mix.

### DOSAGE

The guidance dosage is between 0.4-2.5%/100 kg of cementitious materials in the mix, including GGBFS, PFA or micro silica.

## EFFECTS OF OVER DOSAGE

**REC PLAST SP 133** over dosage will cause the following:

- Significant 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 SP 133**, 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.

## PACKING

**REC PLAST SP 133** is available in pails, drums and bulks supply on request.

## STORAGE

**REC PLAST SP 133** 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 SP 133** is not classified as hazardous material. **REC PLAST SP 133** 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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