

REC PLAST F 703

HIGH PERFORMANCE WATER REDUCING ADMIXTURE FOR HSC

DESCRIPTION

REC PLAST F 703 is high performance superplasticising admixture formulated from selected polymers specially designed to enable the water content of the concrete to perform more effectively. This effect can be used in high strength concrete mixes to improve workability, to increase ultimate strengths or to facilitate a reduction in the cement content while sustaining and improving mix properties.

PRIMARY APPLICATIONS

- Recommended for high strength concrete mixes.
- Improved cohesion allows for use in mass concrete pours and piling.
- To produce high quality concrete of improved durability and water tightness.

FEATURES/BENEFITS

- Allowing for high strength concrete production without excessive cement contents.
- Improved workability reduces placing and compaction problems.
- Cement saving without affecting strength.
- Minimizing segregation and bleeding problems by improving cohesion.
- More durable concrete as a result of reduction in permeability and lower water to cement ratio.

COMPATIBILITY

REC PLAST F 703 can be used with all types of Portland cement and cement replacement materials.

REC PLAST F 703 is compatible with other Reckon admixtures used in the same concrete mix.

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

STANDARDS

REC PLAST F 703 complies with BS EN934-2 : 1998 and ASTM C494, Type G & F.

TECHNICAL INFORMATION

Color	Brown
Physical State	Liquid
Specific gravity	1.18 ± 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 F 703 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 F 703** to the concrete mix.

DOSAGE

The guidance dosage of **REC PLAST F 703** is 0.8 - 3.0 litre/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 F 703** to meet the performance requirements by using the materials and conditions in actual use.

EFFECTS OF OVER DOSAGE

Over dosage of **REC PLAST F 703** 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 F 703**, the following factors should be considered:

- Retardation is increased with lower levels 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 setting time.
- Retardation level is increased when cement replacement materials are used in the concrete mix..

CLEANING

- **REC PLAST F 703** can be washed with fresh cold water.

PACKING

REC PLAST F 703 is available in pails, drums and bulks supply on demand.

STORAGE

REC PLAST F 703 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 F 703 is not classified as hazardous material. **REC PLAST F 703** 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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