



SUPAPLAST-RP

Retarding Superplasticiser /High Range Water Reducing Admixture for Concrete

DESCRIPTION

“SUPAPLAST-RP” is a new generation of concrete admixture based on a blend of specially selected organic polymers, combining the properties of superplasticiser with high degree of slump retention characteristics even at high ambient temperature for concrete. “SUPAPLAST- RP” conforms to ASTM C-494 Type G & IS 9103-1999.

USES

“SUPAPLAST-RP” can be used where an extremely workable FLOWING CONCRETE without loss of strength or large water reduction to be made for the same workability which results in dense concrete with higher ultimate strength, in addition to high degree of workability retention, particularly when delay in transportation or placing is likely to cause rapid loss of slump in higher temperature.

ADVANTAGES

- * The water reducing properties of “SUPAPLAST-RP” will give a substantial improvement in workability and flow properties without any increase in water even at a low W/C ratio which can be poured into place around congested reinforcement and requires little (or no) vibration to achieve optimum compaction.
- * Very significant water reduction minimizes shrinkage or cracking, thereby producing close textured impervious concrete with improved durability and surface finish. This is of particular importance in liquid retaining and water bearing structures. Suitable for use in most types of concrete above and below ground subject to surface water, water under pressure and aggressive atmospheric conditions.
- * The Concrete with “SUPAPLAST-RP” keeps concrete pourable consistency for longer time because of its unique workability retention characteristics even at higher ambient temperature, and also reduces heat of hydration and moisture movement.

PROPERTIES

Form	:	Liquid
Colour	:	Brown
Specific Gravity	:	1.18 ± 0.02
pH	:	7 to 8
Air Entrainment	:	May increase very marginally
Chloride Content	:	Nil
Compatibility	:	Can be used with all types of Portland and slag cements, Pozzolana cement and sulphate resisting cement
Consistency	:	“SUPAPLAST-RP” is formulated from carefully selected raw materials and is manufactured under control conditions to give a consistent product
Handling	:	“SUPAPLAST-RP” is formulated from chemicals which present no fire or health hazards
Toxicity	:	Non-toxic

METHOD OF USE

“SUPAPLAST-RP” is supplied ready for use. For maximum dispersion throughout the mix measured quantity of “SUPAPLAST-RP” should be added directly into the mixer at the same time as the mixing water. On no account it should be added to the dry cement. To achieve the best results, the mixer along with material should be rotated for at least 2-3 minutes.

RATE OF ADDITION

It is recommended that the optimum dosage is determined by site trials with actual concrete mix. As a guide the rate of addition is generally in the range of:

- 200 ml to 350 ml per 50 kg of cement for normal concrete.
- 400 ml to 700 ml per 50 kg of cement for high range of water reduction or high strength concrete.

PACKING

“SUPAPLAST- RP” is available in 25,100 and 200 litre steel drum or polycarboy.

TECHNICAL SERVICE :

SWC group maintains a technical division with highly qualified technical personnel to investigate and advise on subjects related to Concrete and the Construction Industry. The Division can advise on the correct use and selection of right products at the right place.

SWC undertakes Consultancy Service for diagnosis and rehabilitation of distressed structures. SWC undertakes Contracts on turnkey basis for total Waterproofing System with guarantee

NOTE : This Technical data sheet is to be used as guidance only. Although the basic formulation of the product remains unchanged, production refinements arising from continuing research and evaluation programmes may occasionally result in marginal change in properties. The recommendation and properties of the product based on continuous monitoring of the product are not intended to infringe on other patents.

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