

FIBCON 412/ n

Water reducing and retarding super plasticizer

DESCRIPTION

FIBCON 412/n is a high range water-reducing admixture formulated specifically to extend the working time of following concrete. It is based on Naphthalene Formaldehyde.

AREAS OF APPLICATION

- Ready mix concrete
- Parking decks
- Bridge decks
- Industrial floors
- Improves durability of dusting concrete surfaces.

FEATURES & BENEFITS

Produces "Flowing" concrete with controlled delay of slumps loss and workability. Reduces cracking and permeability of hardened concrete. Reduces segregation and bleeding in the plastic concrete. When used to produce "Flowing" concrete. Significantly reduces concrete placement time and cost. Generally reduces water requirements.

DOSAGE

FIBCON 412/n is used at a range of 0.4 % to 2.5% by weight of cement. The slump loss will be gradual upto six hours at a temperature of 22oC and upto three hours at a temperature of 49oC when proper quantities of FIBCON 412/n are used. Variations in slump loss and setting characteristics are function of the amount of admixtures used, cement characteristics and the mix design selected. An increase in concrete temperature will cause an increase in slump loss and a decrease in initial set time.

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APPLICATION METHODOLOGY

Add FIBCON 412/n to the dosing water. It should not come into contact with dry cement.

DOSING

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Charge all concrete material in the proper order into the mixer with about 85% of the mixing water and mix for the three minutes. Add rest quantity of water with admixture to obtain the required slump and mix for three addition minutes.

NOTE : -n The suffix "n" to FIBCON 412/n represents a slight change in the formulation of FIBCON 412/n depending on the type of effect sought, site condition, quality and quantity of cement, aggregate, sand grading, w/c ratio, ambient temperature, humidity etc. In order to get the effect sought and required results the formulation has been modified.

FORMWORK

Forms for walls or narrow sections must be watertight, strong and must have good bracing. During the "Flowing period" the concrete will exert a higher pressure at the base of the form than conventional concrete. Form work for slabs is the same as for conventional concrete.

SPECIFICATIONS & COMPLIANCES

FIBCON 412/n meets or exceeds the following requirements. IS 9103 & ASTM C 494, Type G



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