



1.18 FAST 1800 SP-PC

Low Dosage Super-plasticizer for Concrete

PRODUCT DESCRIPTION

FAST 1800 Super-plasticizer, Poly-Carboxylate is an exceedingly efficient super-plasticizer which reduces water requirements in concrete up to 30%. FAST 1800 SP-PC produces highly fluid concrete for easier and faster placement. Higher strength concrete is achieved with substantially lower water/cement ratios and maintaining workability. FAST 1000 SP-MN attains the necessary workability in the most difficult placement problems without the use of excess water. FAST 1800 SP-PC is a synthetically manufactured combination of lignosulphonate based, and other proprietary ingredients. The combined characteristics of the lignosulphonate and naphthalene condensates provide beneficial concrete performance in a single super-plasticizer.

BENEFITS

- Comparable strength development to stiff, low slump concrete.
- Increased workability.
- Effortless placement.
- Easier and faster pumping of concrete with pump pressures reduced as much as 50%.
- Increased volume stability.
- Reduced segregation even at high slumps.
- Type I cement early strength development comparable to Type III.
- Greater impermeability.
- Excellent concrete durability.
- Improved appearance of architectural concrete.
- Reduced discharge and turnaround time for trucks.
- Improved resistance to sulfate attack

- Increased productivity resulting in reduced labor costs, and faster reuse of forms.
- Increased strengths at all ages.

RECOMMENDATIONS

FAST 1800 SP-PC contains no calcium chlorides. FastChem recommends FAST 1800 SP-PC for use in all types of concrete including plain, reinforced, extruded, precast and prestressed concretes. FAST 1800 SP-PC is especially effective in concrete containing such pozzolanic materials as fly ash, silica fume and slag.

DOSAGE

Dosage rates vary depending upon the amount of plasticity and/or water reduction desired. The recommended dosage range for FAST 1800 SP-PC is 300 ml to 800 ml per 100 kgs of cementitious material. Trial mixes are suggested in order to determine the required dosage for optimum performance with your concrete components.

DIRECTIONS FOR USE

For optimum results, introduce FAST 1800 SP-PC towards the end of the mixing process. FAST 1800 SP-PC maintains its super-plasticized consistency for up to 90 minutes depending on the environmental conditions. Ambient temperature, transport distance, and jobsite delays may dictate jobsite addition of FAST 1000 SP-MN.



FastChem Technologies

The Fast Chemistry for Construction

CHARACTERISTICS

Specific Gravity.....1.10

Chloride content.....Nil to BS 5075

Air content.....>3%

Alkali content: Typically 72.0g Na₂O

APPLICABLE STANDARDS

FAST 1800 SP-PC meets or exceeds the requirements of ASTM C-494-92, Types A, F& G. FAST 1000 SP-MN DOES NOT CONTAIN CALCIUM CHLORIDE.

PACKAGING

FAST 1800 SP-PC is supplied in either 55-gallon/210 lit drums or in bulk delivery. FAST 1800 SP-PC should be kept from freezing. If accidentally frozen its properties can be restored by thawing and thoroughly re-mixing by mild mechanical agitation.

TECHNICAL SERVICE

A trained FastChem representative is available to assist in the preparation of specifications, and the resolution of concrete problems in the field.

WARRANTY

This product is warranted to be free of defects in material and workmanship, and conform to FastChem Construction Chemicals ("FastChem") quality control standards. All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind, expressed or implied including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose. Satisfactory results depend upon many factors beyond FastChem's control. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from his or her direct use, indirect use or consequential to their use of the product. FastChem shall not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use or inability to use the product. FastChem's sole responsibility shall be to replace that portion of the product which proves to be defective. Any warranty claim must be made within six (6) months from the date of the claimed breach. This limited warranty applies only if the product was properly installed and used according to all instructions and was properly stored prior to use.

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