



## 1.19 FAST 1200 SP-M

### *Super-Plasticizer for Concrete*

#### PRODUCT DESCRIPTION

FAST 1200 SP-M is an extremely efficient super-plasticizer, which can reduce the water requirements in your concrete by as much as 30%. FAST 1200 SP-M can be used to produce either highly fluid concrete for easier and faster placement or high strength concrete with substantially lower water/cement ratios than would normally be obtained. With FAST 1200 SP-M, you can attain the necessary workability for the most difficult placement problems without the use of excess water. FAST 1200 SP-M super-plasticizer is a naturally manufactured, lignosulphonate based.

#### BENEFITS

- Comparable strength development to stiff, low slump concrete.
- Increased workability and easier place ability.
- Easier and faster pumping of concrete with pump pressure reduced as much as 50%.
- Reduced shrinkage and cracking.
- Reduced segregation even at high slumps.
- Frequently Type I cement can be substituted for Type III to meet the same early strength requirements.
- Greater impermeability.
- Increased concrete durability, uniformity, and strength at all ages.
- Improved appearance of architectural concrete.
- Reduced discharge and turnaround time for trucks.

- Earlier release of beds in pre-stressed concrete.
- Reduced bleed and increased density.
- Improved resistance to sulfate attack.
- Increased productivity resulting in reduced labor costs, and faster reuse of forms.

#### RECOMMENDATIONS

Since FAST 1200 SP-M is calcium chloride free, it is recommended for use in all types of concrete. FAST 1200 SP-M 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 1200 SP-M is 10 to 40 ounces per 100 pounds (650 to 1600 ml/100kg) of cementitious material. Trial mixes are suggested in order to determine the required dosage for optimum performance with your concrete components.

#### PROPERTIES

- Appearance: Brown liquid
- Specific gravity: Typically 1.160 at 20°C
- Chloride content: Nil to BS 5075
- Air entrainment: Typically less than 2% additional air is entrained at normal dosages
- Alkali content: Typically less than 72.0 g. Na<sub>2</sub>O



# FastChem Technologies

*The Fast Chemistry for Construction*

## DIRECTIONS FOR USE

For optimum results, introduce FAST 1200 SP-M towards the end of the mixing process. Generally, FAST 1200 SP-M flowing concrete reverts to its original consistency within 30-90 minutes depending on the environmental conditions. Contingent upon ambient temperature, transport distance, and jobsite. Delays, site addition of FAST 1200 SP-M may be necessary, or more practical. FAST 1200 SP-M should be kept from freezing. If accidentally frozen, its properties can be restored by thawing and thoroughly re-mixing by mild mechanical agitation.

## APPLICABLE STANDARDS

FAST 1200 SP-M meets or exceeds the requirements of ASTM C-494, Types A, F&G.

## PACKAGING

FAST 1200 SP-M is supplied in either 55-gallon (210 liter) drums or in bulk delivery.

## 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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