



## 1.14 FAST-SP 950

*High-performance, High Workability Slump Retaining Water Reducing Super plasticizer*

### PRODUCT DESCRIPTION

FAST SP 950 is a new generation super plasticizer based on naphthalene sulphonate based technology. This product is designed to provide normal to high water reduction, while providing excellent flow ability during placement, and excellent slump retention without affecting initial setting time. This product incorporates the latest state of the art technology in high performance concrete. FAST SP 950 was designed to provide extended slump retention for super high-strength concrete, flow able and self-consolidating concrete in a variety of applications.

### BENEFITS

- Provides a linear dose response to provide desired water reductions. It is recommended for ready-mix for both structural and architectural applications.
- Provides a linear response to allow high levels of water reduction as well as maintaining the level of workability for longer periods of time versus conventional superplasticizers.
- Concrete mixes produced can exhibit a cohesive and non-segregating concrete.
- Can reduce the overall production cost, especially when used with FAST CHEM's self-consolidating concrete technology.
- More efficient pumping of concrete with pump pressures reduced as much as 50%.
- Reduced discharge and turn-around time for trucks.
- Improves impermeability to reduce sulfate attack.
- Increased productivity, resulting in reduced labor costs.
- Faster reuse of forms.

- Increased strengths at all ages.

### RECOMMENDATIONS

FAST SP 950 is recommended for use in all types of concrete including plain, reinforced, flow able and self-consolidating concrete. FAST SP 950 is very effective in concrete containing pozzolanic and materials such as fly ash, silica fume and slag.

### TECHNICAL INFORMATION

#### PROPERTIES

<b>Appearance</b>	:	Brown liquid
<b>Specific gravity (BSEN 934-2)</b>	:	1.20 @ 20°C ± 0.005
<b>Water soluble chloride (BSEN 934-2)</b>	:	Nil
<b>Alkali content (BSEN 934-2)</b>	:	Typically less than 5 mg. Na <sub>2</sub> O equivalent / liter of admixture

**Shelf Life:** 1 year in original, unopened package.

#### DOSAGE

Dosage rates vary depending upon the amount of plasticity and/or water reduction desired. Recommended dosage range for FAST SP 950 is 33.8 to 67 ounces per 220.5 pounds (800 mls to 2000 mls per 100 Kg) of cementitious material to meet ASTM Type A,F&G. FAST SP 950 has a linear-dosage response so the dosage amount can be precisely tailored to the degree of water reduction or slump characteristics required for the application. For very high strength applications, the dosage can be increased up to 87 ounces per 220.5 pounds (2500 mls per 100 Kg)



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of cementitious material. Because of the variability increments, field conditions, and other ingredients in the mix, it is highly recommended that trial mixes be prepared to determine the optimum dosage for your specific performance requirements.

## DIRECTIONS FOR USE

For optimum results, introduce FAST SP 950 towards the end of the mixing process. FAST SP 950 maintains its super plasticized consistency for up to 120 minutes depending on the dosage and environmental conditions. FAST SP 950 Factors to consider are ambient temperature, transport distance, and jobsite delays. FAST SP 950 can be used in conjunction with and is compatible with all of FAST CHEM's non-chloride accelerators.

## APPLICABLE STANDARDS

FAST SP 950 meets or exceeds ASTM C-494, Types A; F & G. FAST SP 950 does not contain calcium chloride.

## PACKAGING

FAST SP 950 is supplied in either 55 gallon drums (210 liter) or delivered in bulk. FAST SP 950 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 FAST CHEM's 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 FAST CHEM Construction ("FAST CHEM") 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 FAST CHEM'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. FAST CHEM 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. FAST CHEM'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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