

## ConAd SP 587

Water Reducing Admixture for High Strength, High Slump Concrete

### DESCRIPTION

ConAd SP 587 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.

ConAd SP 587 is 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 super plasticizers.
- Concrete mixes produced can exhibit a cohesive and non-segregating concrete.
- Can reduce the overall production cost, especially when used with RADIANT self-consolidating concrete technology.
- More efficient, unping of concrete with pump pressures reduced as much as 50%.
- Reduced discharge and turn-around time for trucks.

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

### RECOMMENDATIONS

ConAd SP 587 is recommended for use in all types of concrete including plain, reinforced, flow able and self-consolidating concrete. ConAd SP 587 is very effective in concrete containing pozzolanic materials such as fly ash, silica fume and slag.

### Technical Specs & Physical Properties

Appearance	Brown Liquid
Specific Gravity	1.175 @ 25° C
Chloride Content	Nil
Air Entrainment	Less than 3%
Freezing Point	-2° C

### APPLICABLE STANDARDS

ConAd SP 587 meets or exceeds ASTM C-494; Types A, F&G.

ConAd SP 587 does not contain calcium chloride.

ConAd SP 587 Complies with AASHTO M-194.

### DOSAGE

Dosage rates vary depending upon the amount of plasticity and/or water reduction desired. Recommended dosage range for ConAd SP 587 is 33.8 to 52.8 ounces per 220.5 pounds (1000 mls to 1500 mls per 100 Kg) of cementitious material to meet ASTM Type A,F&G.

ConAd SP 587 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 67 ounces per 220.5 pounds (2000 mls per 100 Kg) 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 ConAd SP 587 towards the end of the mixing process.

ConAd SP 587 maintains its super plasticized consistency for up to 120 minutes depending on the dosage and environmental conditions. ConAd SP 587 factors to consider are ambient temperature, transport distance, and jobsite delays.

### **PACKAGING**

ConAd SP 587 is supplied in (210 Liters Drum) or delivered in bulk.

### **TECHNICAL SERVICES**

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

### **HANDLING & STORAGE**

ConAd SP 587 has a shelf life of 12 months if kept in a dry cool place in the original packing.

ConAd SP 587 should be kept from freezing. If accidentally frozen, its properties

can be restored by thawing and thoroughly re-mixing by mild mechanical agitation.

### **HEALTH & SAFETY PRECAUTIONS**

During use avoid contact with skin and eyes. Suitable gloves, eye protection must be used. In case of contact with skin or eyes, it shall be immediately washed with fresh water.

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### **Important Note:**

**RADIANT Construction Technologies** manufactures wide range of construction chemicals, including admixtures, concrete repairing mortars, curing compounds, adhesives, concrete protection coatings, waterproof coatings, grouts & Tile Bond.

Separate Technical Data Sheets are available for these products.