

ConAd SP 687

Water Reducing Admixture for High Strength, High Slump Concrete

DESCRIPTION

ConAd SP 687 is a new generation super plasticizer based on naphthalene sulphonate based technology. This product is designed to provide high water reduction, while providing excellent flowability 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 687 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 687 is recommended for use in all types of concrete including plain, reinforced, flow able and self-consolidating concrete.

ConAd SP 687 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	1.195 @ 20° C
Chloride Content	Nil
Air Entrainment	Less than 3%
Freezing Point	-2° C

APPLICABLE STANDARDS

ConAd SP 687 meets or exceeds ASTM C-494; Types A, D, F&G.

ConAd SP 687 does not contain calcium chloride.

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 687** is 27.05 to 52.8 ounces per 220.5 pounds (800 to 1500 mls per 100 Kg) of cementitious material to meet ASTM Type A,D, F&G.

ConAd SP 687 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 687** towards the end of the mixing process.

ConAd SP 687 maintains its super time plasticized consistency for a long time, depending on the dosage and environmental conditions. **ConAd SP 687** factors to consider are ambient temperature, transport distance, and jobsite delays.

PACKAGING

ConAd SP 687 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 687 has a shelf life of 12 months if kept in a dry cool place in the original packing.

ConAd SP 687 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.