

ConAd SP 551

Super Plasticizer for Concrete

DESCRIPTION

CONAD SP-551 is a new generation super-plasticizer based on lingo-sulphonate 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-551 is designed to produce super high-strength concrete, flow able and self-consolidating concrete in a variety of applications. CONAD SP-551 is also well suited for horizontal work.

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 FAST 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.
- Increased strengths at all ages.

RECOMMENDATIONS

CONAD SP-551 is recommended for use in all types of concrete including plain, reinforced, flow able and self-consolidating concrete. CONAD SP-551 is very effective in concrete containing pozzolanic materials such as fly ash, silica fume and slag.

TECHNICAL & PHYSICAL PROPERTIES

Appearance	Brown Liquid
Specific Gravity	1.17 @ 25° C
Chloride Content	NIL
Air Entrainment	Less than 2%
PH Value	7-8

APPLICABLE STANDARDS

CONAD SP-551 meets or exceeds

ASTM C-494; Types A & G.

CONAD SP-551 does not contain calcium chloride.

AASHTO M-194.

DOSAGE

Dosage rates vary depending upon the amount of plasticity and/or water reduction desired.

Recommended dosage range for CONAD SP- 551 is (400 ml. to 800 ml. per 50 Kg. of cement bag to meet ASTM Type A & G requirements.

CONAD SP-551 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 (1500 mls per 100 Kg) of cementitious material.

Because of the variability in cements, 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-551** towards the end of the mixing process.

CONAD SP-551 maintains its super plasticized consistency for up to 90 minutes depending on the dosage and environmental conditions. Factors to consider are ambient temperature, transport distance, and jobsite delays. **CONAD SP-551** can be used in conjunction with and is compatible with all of RADIANT's non-chloride accelerators.

PACKAGING

CONAD SP-551 is supplied in
(210 Liters Drum).

HANDLING & STORAGE

CONAD SP-551 has a shelf life of 12 months if kept in a dry cool place in the original packing. **CONAD SP-551** should be kept above 5°C (40°F). If accidentally frozen, its properties can be restored by thawing and thoroughly re-mixing by mild mechanical agitation.

TECHNICAL SERVICES

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

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.

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.

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