



Technical Data Sheet

Spectra 161

Low-Range Water Reducing & Super plasticizing Concrete Admixture

Description

SPECTRA 161 is a new generation polycarboxylate based high performance superplasticizer. It is formulated from blend of polycarboxylate polymers using state-of-the-art technologies to produce a superplasticizer for promoting high early and ultimate strength with high slump values concrete.

SPECTRA 161 conforms to the requirements of ASTM C494 Type G and EN 934-2 Table 11.1 and 11.2.

Application

SPECTRA 161 provides high slump, high early strength and ultimate strength concrete. Ready mix producers, Civil Contractors and DIY professionals use **SPECTRA 161** in the production of concrete for structures such as slabs and foundations, walls, columns, slender components with densely packed stressed concrete, bridges and cantilever structures.

Advantages

SPECTRA 161 is an improved superplasticizer specially formulated to effect high range water reductions up to 30% leading to 50% increase in compressive strength and improve in durability of concrete.

SPECTRA 161 provides extreme workability to concrete mixes for easy placing, less vibration and reduces risk of segregation.

SPECTRA 161 has the ability to increase the fluidity of concrete at lower water cement ratio with minimum slump loss due to the higher polymer adsorption and steric hindrance effect.

Technical properties

Appearance and Color	Honey colored Liquid
Specific Gravity	1.04± 0.02
Total Chloride Content	Nil
Solid Content	16.00% ± 1.00



Method of Use

Field Applications:

SPECTRA 161 can be added to the mixing water prior to its addition to the aggregates or directly to the freshly mixed concrete (the plasticizing effect is more pronounced). For ready Mix Concrete, **SPECTRA 161** can be added to the concrete immediately prior to discharge and after further mixing has taken place for three minutes.

Dosage Rate

The guidance dosage of **SPECTRA 161** is 0.50 to 2.0 liter per 100kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Representative trials should be conducted to determine the optimum dosage of **SPECTRA 161** to meet the performance requirements by using the materials and conditions in actual use.

Effects of overdosing:

When overdosing beyond the design limit occurs, the set retarding effects increases and may result in increased air content. During this period the concrete must be kept moist in order to prevent premature drying out and ensure design strengths properties are not impaired.

Disclaimer:

We hope that the information herein will be helpful. The data is based upon knowledge considered to be accurate and true and is offered for the user consideration, investigation and verification in the application intended. We do not warrant the results or performance attained due to the nature of the influence of other constituent components in the application.



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Storage

SPECTRA 161 shelf life is 6 months from date of manufacture.

Cleaning

In case of spillage, wash it with clean water.

Packaging

Available in bulk, 1000 Lt. Tote or in 210Lt. drums

Cautions

Health and safety

SPECTRA 161 is not a fire or health hazard. If however, it is spilled, the floor will become slippery and should be washed down with water immediately but should not be left to enter sewers/surface or ground water, in case of uncontrollable situation, wash it with plenty of water to dilute. In case of eye contact or ingestion, seek medical attention without delay. Do not dispose of into water or soil but according to local regulations.

Fire

SPECTRA 161 is non-flammable.

E n v i r o c o n C o n s t r u c t i o n P r o d u c t s L L C



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