



Technical Data Sheet

Spectra 215

Low-Mid Range Water Reducing & Super plasticizing Concrete Admixture

Description

Spectra 215 is a new generation polycarboxylate Blend based high performance superplasticizer.

It is formulated from blend of polycarboxylate polymers using state-of-the-art technologies to produce high workable concrete to be pumped easily to high levels.

Spectra 215 conforms to the requirements of ASTM C494 Type G.

Application

Spectra 215 is excellent to achieve high flow able concrete to aid workability demand of pumping to high-rise structures.

Ready mix producers, Civil Contractors and DIY professionals use **Spectra 215** in the production of concrete for structures such as slabs and foundations, walls, columns, slender components with densely packed reinforcement, textures surface finishes.

Advantages

Spectra 215 is a superplasticizer specially formulated to effect high range water reductions up to 30% leading to an increase in compressive strength and improve in durability of concrete. **Spectra 215** provides extreme workability to concrete mixes so that concrete can be pumped easily to a high level. **Spectra 215** could 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	Lumps free liquid
Color	Variable
Specific Gravity	1.040 ± 0.02
Total Chloride Content	Nil

Method of Use

Spectra 215 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 215** 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 215** is 0.50 to 2.00 liter per 100kg of cementitious materials in the mix, including GGBFS, PFA or micro silica.

Representative trials should be conducted to determine the optimum dosage of **Spectra 215** to meet the performance requirements by using the materials and conditions in actual use.

Spectra 215 should not be pre-mixed with other admixtures; the performance may be affected by the presence of other chemicals.

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 to prevent premature drying out and ensure design strengths properties are not impaired.

Storage

Spectra 215 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

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.



Technical Data Sheet

Spectra 215

Low-Mid Range Water Reducing & Super plasticizing Concrete Admixture

Cautions

Health and safety

Spectra 215 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 water or soil, but according to local regulations.

Fire

Spectra 215 is non-flammable.



Envirocon Construction products L.L.C.

Abu Dhabi U.A.E.

P.O.Box :28577

Tel:+971 2 5503473

Fax:+971 2 5503474

www.enviroconcp.com

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.