



Technical Data Sheet

Spectra 190S

Low Range Water Reducing & Super plasticizing for
Concrete Admixture & Block industries

Description

Spectra 190S is a high-performance super plasticizing admixture based on polycarboxylic ether polymers with long chains specially designed to enable the water content of the concrete to perform more effectively. This effect can be used in high strength concrete, blocks, and interlock, to achieve highest cementitious durability and performance.

Spectra 190S conforms to the requirements of ASTM C494 Type G & F.

Application

Spectra 190S used in the production of concrete for structures, cementitious blocks, and interlock.

Trial mixes are recommended to ensure design parameters are attained. It is compatible with local cements and cementitious replacements such as slag and micro silica.

Advantages

Spectra 190S is a superplasticizer specially formulated to effect high range water reductions up to 30% leading to increase in compressive strength and improve in durability of concrete and cementitious products.

Spectra 190S lower water cement ratio with minimum slump loss due to the higher polymer adsorption and steric hindrance effect.

Technical properties

Appearance	Lumps free liquid
Specific Gravity	1.050 ± 0.02
Total Chloride Content	Nil

Method of Use

Field Applications:

Spectra 190S can be added to the mixing water prior to its addition to the aggregates or directly to the freshly mixed concrete, or cementitious mix (the plasticizing effect is more pronounced).

Dosage Rate

The guidance dosage of **Spectra 190S** 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 190S** 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.

Storage

Spectra 190S 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 190S 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 190S is non-flammable.

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.