



Technical Data Sheet

Spectra 117

Water Reducing and high early strength admixtures for blocks and pavers.

Description

Spectra 117 is a water-reducing and high early strength concrete admixture that is used to improve the fresh and hardened properties for grey and colored semi-dry concrete such as paving stones and masonry blocks.

Spectra 117 conforms to the requirements of ASTM C494 Type C & E.

Application

Spectra 117 is used in the production of interlocks, paving stones, and masonry blocks.

Advantages

- Higher early and ultimate compressive strengths.
- Provides extreme workability to concrete mixes for easy placing, less vibration and reduces risk of segregation.
- Improves the cement dispersion within concrete which leads to a better workability to facilitate the compaction of concrete.
- High density and impermeable concrete through very high-water reduction.
- Improves shrinkage and creep behaviors.
- Minimizes segregation and bleeding problems by improving cohesion.

Technical properties

Appearance	Lumps free Liquid
Specific Gravity	1.02 ± 0.02
Total Chloride Content	Nil

Method of Use

Field Applications:

Spectra 117 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).

Dosage Rate

The guidance dosage of **Spectra 117** is 0.50 to 2.0 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 117** 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 may increase 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 strength properties are not impaired.

Storage

Spectra 117 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 117 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 117 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.



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