Envirocon Construction Products LLC

Technical Data Sheet

Spectra 347P

Mid-Range, High early strength Hyper Plasticizing Concrete Admixture

Description

Spectra 347P is a high-performance early strength concrete super plasticizing admixture based on a new generation designed for finish improvement of hollow core products.

Spectra 347P exclusive formulation allows for extreme easiness of use and robustness.

Application

- Pre-cast concrete.
- Hollow core concrete
- High early strength and high-performance concrete.
- Structures with congested reinforcement.
- Improved cohesion allow for use in mass concrete pours and piling.

Advantages

- Greatly improves bottom finish while providing superior overall aesthetics
- Reduces shrinkage and creep behaviors
- Provides increased strengths at all ages and improved strand connectivity
- High density and impermeable concrete through very high-water reduction.
- Provides ultimate camber recapture characteristics
- Allows for optimal horizontal shear performance
- Improves concrete quality by reducing the water-cement ratio for a given degree of workability
- Proprietary molecule reduces concrete viscosity (stickiness) while enhancing cementitious hydration.
- Improves concrete chemical resistance and durability
- Minimizes segregation and bleeding problems by improving cohesion.

Technical properties

Appearance	Lumps free liquid
Color	Variable
Specific Gravity	1.05± 0.02
Total Chloride Content	Nil

Method of Use

Field Applications:

Spectra 347P 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 347P** 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 347P** is 0.75 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 347P** 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 setting time may increase 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 347P 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. IBCs or in 210Lt. drums

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Cautions

Health and safety

Spectra 347P 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 347P is non-flammable.

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