Envirocon Construction Products LLC

# Technical Data Sheet

## Spectra 334

**Mid Range Water Reducing & Super plasticizing Concrete Admixture**

## Description

**Spectra 334** 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 334** conforms to the requirements of ASTM C494 Type G and EN 934-2 Table 11.1 and 11.2.

## Application

**Spectra 334** 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 334** in the production of concrete for structures such as slabs and foundations, walls, columns, slender components with densely packed reinforcement, textures surface finishes.

## Advantages

- Optimizes cement utilization.
- High density and impermeable concrete through very high-water reduction.
- Improves shrinkage and creep behaviors.
- Minimizes segregation and bleeding problems by improving cohesion.
- Higher early and ultimate compressive strengths.
- Increases durability and resistance to aggressive atmospheric conditions thorough reduced permeability.

## Technical properties

| | |
|---|---|
| Appearance | Lumps free liquid |
| Color | Yellowish Clear |
| Odour | Characteristic |
| Specific Gravity | 1.070 ± 0.02 |
| Total Chloride Content | Nil |

## Method of Use

**Spectra 334** 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 334** 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 334** is 0.50 to 1.80 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 334** to meet the performance requirements by using the materials and conditions in actual use.

**Spectra 334** 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 334** 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

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## Cautions

**Health and safety**

**Spectra 334** 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 334** is non-flammable.

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