



Technical Data Sheet

Ecoment 1 Retarding Concrete Admixture



Description

Ecoment 1 is a retarding agent for concrete, Ecoment 1 designed to enable the water content of the concrete to perform more effectively. This effect can be used to improve workability, to increase ultimate strengths or to facilitate a reduction in the cement content while sustaining mix properties.

The retarding property, will overcome transportation delay problems and where long setting time is required.

Ecoment 1 conform to type D of ASTM designation C494.

Application

- Long concrete deliveries.
- Hot weather concreting.
- Where high workability retention and retardation are required.
- To produce high quality concrete of improved durability and water tightness.

Advantages

Ecoment 1 has the below advantages

- Improved workability reduces placing and compaction problems.
- Cold joints can be avoided by extending initial and final concrete setting time.
- Higher strength with same cement content.
- Cement saving without affecting strength.
- More durable concrete as a result of reduction in permeability and lower water to cement ratio.

Technical properties

Appearance and Color	Brown Liquid
Specific Gravity	1.16 ± 0.02
Total Chloride Content	Nil



Method of Use

Field Applications:

Ecoment 1 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, **Ecoment 1** can be added to the concrete immediately prior to discharge and after further mixing has taken place for three minutes.

Dosage Rate

A dosage rate of 0.5 – 1.5% volume per weight of cementitious material. It is recommended to carry out trial mixes to define the exact dosage rate required.

Ecoment 1 can be combined with other admixtures in our range, trial mixes are recommended to ensure design parameters are attained. It is compatible with local cements and cementitious replacements.

Effects of overdosing:

When overdosing beyond the design limit occurs, the set retarding effects increases and may results in increased air content. During this period the concrete must be kept moist in order to prevent premature drying out and ensure design strengths properties are not impaired.

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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Storage

Ecoment 1 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

Ecoment 1 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

Ecoment 1 is non-flammable.

E n v i r o c o n C o n s t r u c t i o n P r o d u c t s L L C



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