



## Technical Data Sheet

### Ecocast 410 High-Range Water Reducing & Super plasticizing Concrete Admixture



#### Description

**Ecocast 410** is superplasticising admixture formulated from selected polymers specially 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.

**Ecocast 410** complies with ASTM C494, Type A and F and BS5075, Part 3.

#### Application

- Low water cement ratio, high strength concrete.
- To accelerate early strength development.
- To produce high quality concrete of improved durability and after tightness.
- Precast concrete.

#### Advantages

- High strength increase with same cement content.
- Earlier formwork stripping by increasing early strength.
- Improved workability, reduces placing and compaction problems.
- Cement saving without affecting concrete strength and workability.
- Minimizing segregation and bleeding problems by improving cohesion.
- 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@25 °C | 1.19 ± 0.02  |
| Total Chloride Content | Nil          |



#### Method of Use

##### Field Applications:

**Ecocast 410** 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, **Ecocast 410** 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 – 2.0% volume per weight of cementitious material. It is recommended to carry out trial mixes to define the exact dosage rate required.

**Ecocast 410** 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. Overdose can result in excessive workability leading to segregation and bleeding. During this period the concrete must be kept moist in order to prevent premature drying out. However, the ultimate strength of the concrete will not be adversely affected as a result of over-dosage if the concrete is properly cured.

#### 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

**Ecocast 410** 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

**Ecocast 410** 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

**Ecocast 410** is non-flammable.

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