



Technical Data Sheet

Ecocrete 591

High-Range Water Reducing & and Slump Retention Super plasticizing Concrete Admixture

Description

ECOCRETE 591 is modified version from **ECOCRETE 591** with enhanced setting time properties.

ECOCRETE 591 has been developed to promote and enhance workability and slump retaining ability, while providing excellent durability and ultimate strength to concrete. **ECOCRETE 591** conform to the requirement of ASTM C494 type G and F, ASTM C 1017 and EN 934-2.

Application

Ready mix producers, Civil Contractors and DIY professionals use **ECOCRETE 591** in the production of concrete for structures such as slabs and foundations, walls, columns, slender components with densely packed reinforcement, textures surface finishes, pre-stressed concrete, bridges and cantilever structures.

Advantages

ECOCRETE 591 provides superior strength and durability, improved workability retention and early setting time. It also enhances faster and easier placing and compacting of concrete around heavy reinforcements by improving workability at given water-cement ratio. Improved concrete properties, compared to other super plasticizers such as early and ultimate compressive and flexural strengths, reduced shrinkage and lower permeability. **ECOCRETE 591** as a high range water reducer provides up to 30 % water reduction.

Technical properties

Appearance	Lumps free liquid
Color	Dark Brown
Specific Gravity	1.23 ± 0.02
Total Chloride Content	Nil



Method of Use

Field Applications:

ECOCRETE 591 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, **ECOCRETE 591** 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 – 2.5% volume per weight of cementitious material. It is recommended to carry out trial mixes to define the exact dosage rate required. **ECOCRETE 591** 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.



Technical Data Sheet

Ecocrete 591

High-Range Water Reducing & and Slump Retention Super plasticizing Concrete Admixture

Storage

ECOCRETE 591 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

ECOCRETE 591 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

ECOCRETE 591 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



Envirocon Construction products L.L.C.

Abu Dhabi U.A.E.

P.O.Box :28577

Tel:+971 2 5503473

Fax:+971 2 5503474

www.enviroconcp.com

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.