

VMA-42

Viscosity Modifying Admixture for producing self-compacting concrete

General Description

VMA 42 is a viscosity modifying admixture designed to enable the production of self-compacting concrete. When added to the mix, concrete treated with VMA 42 is more stable and resistant to segregation.

Features/Advantages

- Increases the viscosity and cohesiveness of the concrete mix.
- Reduces concrete bleed water
- Reduces segregation in high water cementitious and high slump mixes
- Aids in concrete mix stability with gap-graded aggregates
- Can be introduced at the batch plant or jobsite
- Enables the production of self compacting concrete
- Normal setting characteristics throughout the dosage range
- Enhances the appearance of finished surfaces
- Easy to dispense

Applications

- Lean concrete mixes with minimum cementitious contents.
- Mixes requiring reduction or elimination of bleed water.
- Highly fluid self-consolidating concrete mixes that require the use of a viscosity. Aids in concrete mix stability with gap-graded aggregates modifier to eliminate segregation.
- Mixes requiring reduction or elimination of bleed water. Enables the production of self compacting concrete.

How To Use & Dosage

Recommended for use at a dosage rate of 1 to 15 fluid ounces per 100 pounds (65 to 980ml per 100 kg) of cementitious materials for most applications. Because local job conditions, materials, and applications vary, this product may require dosages outside the recommended dosage range

Mixed Performance Data

VMA 42 has little effect on the compressive strength of the concrete. If a lower water cementitious ratio or higher compressive strength is necessary, the use of additional high-range water reducer is recommended.

- Bleed water is significantly reduced and may be eliminated in concrete mixes, neat mixes.
- A slight decrease in slump should be expected after the addition of Riteks VMA 42 due to the increase in viscosity of the mix. An additional dose of high-range water reducer may be necessary to meet specified slump for placement. Slump retention will be similar to normal concrete mixes.
- When used within the recommended dosage range, has very little effect on set time.
- When using Riteks VMA 42 the air entraining admixture dosage requirement will remain the same as typical concrete mixes.

Specifications

Conforms to:

ASTM C 494 Types S
CRD C 87 Types S
AASHTO M 194 Types S

Compatibilities

Compatible with all types of Portland cement, class C & F fly ash, silica fume, fibers, all approved air entraining, accelerating, superplasticizing, and water-reducing admixtures. For best results, each admixture must be added separately to the concrete mix

Packaging/Storage

5 gal Pails | 55 gal Drums
|Totes | Bulk Deliveries

May freeze at temperatures below 5°F (-15°C). Although freezing does not harm VMA-42, precautions should be taken to protect it from freezing. If it should happen to freeze, thaw and reconstitute with mechanical agitation. Do not use pressurized air for agitation. Product should be used within 18 months of delivery.

Health And Environmental Data

Before handling or using this product please refer to the Safety Data Sheet for complete health, safety and environmental information. Dispose of waste in accordance with local, state and federal regulations



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