

Riteks™ VMA-42

Viscosity Modifying Admixture for producing self-compacting concrete

General Description

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

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.

Conforms to:

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

Compatibility:

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

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.

Health & Environment 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.

Packaging / Shelf Life:

5 gallon pail • 55 gallon drum
Totes • Bulk deliveries

Storage:

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.

We warrant our products to be of good quality and will replace or, at our discretion, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, RITEKS MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. Riteks shall have no other liability with respect thereto. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith. The information provided herein is based on technical data that Riteks, Inc. believes to be reliable. Riteks, Inc. makes no representation or warranty as to the completeness or accuracy thereof and assumes no liability resulting from its use for any claims, losses, or damages of any third party. Recipients receiving this information must exercise their own judgment as to the appropriateness of its use and it is the user's responsibility to assess the material's suitability (including safety) for a particular purpose prior to such use.



Headquarters:

11917 Cutten Road Houston, TX 77066
Ph: [281] 569-3500 • Fax: [281] 569-3508
www.riteks.com

Dallas Plant :

415 Interchange Street McKinney, TX 75071