

## **VMA-758**

### ***VISCOSITY MODIFYING ADMIXTURE FOR PRODUCING SELF-COMPACTING CONCRETE***

#### **DESCRIPTION:**

**VMA-758** is a *viscosity modifying admixture (VMA)* designed to enable the production of self-compacting concrete. When added to the mix, concrete treated with **VMA-758** is more stable and resistant to segregation.

#### **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
- Harsh concrete mixes containing gap-graded aggregates and manufactured sands
- Highly fluid self-consolidating concrete mixes that require the use of a viscosity modifier to eliminate segregation.
- Mixes requiring reduction or elimination of bleed water.

#### **DOSAGE RATE:**

**VMA-758** is recommended for use at a dose of 1 to 15 fluid ounces per 100 pounds (65 to 980 ml 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.

#### **PERFORMANCE DATA:**

##### **Compressive Strengths:**

**VMA-758** 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, such as **SUPERFLO 2000RM** is recommended.

##### **Bleed Water:**

Bleed water is significantly reduced and may be eliminated in concrete mixes, neat mixes, and grout mixes.

##### **Slump:**

A slight decrease in slump should be expected after the addition of **VMA-758** 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.

##### **Set Time:**

**VMA-758**, when used within the recommended dosage range, has very little effect on set time.

##### **Air Entrainment:**

When using **VMA-758** the air entraining admixture dosage requirement will remain the same as typical concrete mixes.

**Mixing:**

**VMA-758** should be incorporated into the mix either with the initial mix water or after all other ingredients have been added and completely mixed. **VMA-758** can be added at the batch plant or jobsite.

**COMPATABILITY:**

**VMA-758** is compatible with all types of Portland cement, class C and F fly ash, silica fume, fibers, approved air entraining, water-reducing, and super plasticizing admixtures.

**VMA-758** can be used in white, colored, and architectural concrete. For best results, each admixture must be added separately into the concrete mix.

**TECHNICAL NOTE:**

Self-Compacting Concrete is produced using a high range water reducer and a VMA when needed. When producing mixes where little vibration and superior finished surfaces are required the following guidelines should be observed:

- Slump flow of 25 to 28 inches
- Air content – 5%
- Minimum cementitious content of 600 lbs/yd. (356 kg/m)
- 45% to 55% fine aggregate by volume all aggregates
- Pozzolanic admixtures, such as fly ash, should be used at rate of 15% of total cementitious

**PACKAGING:**

55-gallon drums, 275-gallon tote tanks, and bulk delivery.

**SHELF LIFE:**

12 months

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