OptiFlo® 100R

Set Retarding Water-Reducing Admixture for Concrete

DESCRIPTION:

OptiFlo® 100R is a hydroxycarboxylic acid (HC) based set retarding, water-reducing admixture for concrete. It is has been carefully designed to provide uniform control of cement hydration, heat evolution, concrete plasticity and concrete set time. This unique product is a valuable tool to control both plastic and hardened concrete properties.

Placing and finishing crews benefit from longer working times and better finishing characteristics of concrete improved with **OptiFlo® 100R**.

OptiFlo® 100R slows the early hydration process that occurs when Portland cement is mixed with water, providing controlled “pre-set” and higher concrete strengths. (More psi per pound of cement)

OptiFlo® 100R improves surface paste qualities and superior finished product appearance.

ADVANTAGES:

- Provides uniform control of hydration reaction and rate of concrete initial and final set
- Maintains slump life during extended mixing and transportation times
- Provides surface lubrication improving placeability and “slipability”
- Improves concrete quality by decreasing water cement ratio for a given degree of workability
- Increases both compressive and flexural strengths
- Increases density and relative durability
- Improves cement hydration and efficiency, yielding more psi per pound of cement
- Reduces cracking and shrinkage
- Reduces segregation
- Provides superior paste qualities and finishability on all concrete surfaces
- Aids to reduce peak heat of hydration in mass concrete, reduces thermal cracking potential
- Aids in preventing cold joints

DOSAGE RATE:

Important: These recommended dosages are for when there are no additional water reducers in the mix design. When using water reducing admixtures in combination to meet ASTM standards, the dosages will vary. Consult your local technical sales reps for those combination dosages.

OptiFlo® 100R is recommended for use at a dosage rate of 2 to 8 fluid ounces per 100 pounds (130 to 521 mL per 100 kg) of cementitious materials.

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SPECIFICATIONS:

Conforms to ASTM C 494 Type B ASTM C 494 Type D AASHTO M 194 Types B and D CRD C 87 Types B and D

TECHNICAL NOTE:

OptiFlo® 100R does not contain calcium chloride or any chloride based components. It will not promote or contribute to corrosion of reinforcing steel in concrete.

STORAGE

OptiFlo® 100R may freeze at temperatures below 35°F (2°C) degrees. Although freezing does not harm the performance of OptiFlo® 100R, 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.

COMPATIBILITY:

OptiFlo® 100R is compatible with all types of Portland cement, class C and F fly ash, slag, microsilica, calcium chloride, fibers and approved water reducing, super plasticizing and air entraining admixtures. OptiFlo® 100R can be used in all white, colored, and architectural concrete. For best results, the air entraining admixture should be added separately into the concrete mix.

PACKAGING:

55-gallon drums, 275-gallon totes, and bulk tank truck

Premiere™ Concrete Admixtures

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