

FloTek 443

High-Range Water Reducing Admixture

General Description

FloTek™ 443 is a high molecular weight, high-range water-reducing admixture engineered to deliver high slump concrete at lower water-to-cementitious ratios. This advanced formulation increases flowability while maintaining both early and ultimate compressive and flexural strengths. Designed with extended slump retention, FloTek 443 can be dosed at the batch plant or job site across the full dosage range without affecting normal set times. When added to low slump concrete, FloTek 443 produces high slump mixes that ensure excellent consolidation around reinforcing steel with minimal or no vibration required.

Features/Advantages

- Produces cohesive, non-segregating concrete
- Provides consistent and controlled set times across the entire dosage range
- Supports accelerated construction schedules for earlier project completion
- Lowers contractor placement costs through improved workability
- Delivers higher early and ultimate compressive strengths
- Improves concrete flow with minimal bleed water
- Enhances durability by reducing permeability
- Increases modulus of elasticity
- Strengthens resistance to freeze-thaw cycles
- Achieves lower water-to-cement ratio for a given slump
- Ensures maximum slump retention for a superplasticizer
- Reduces shrinkage and creep
- Improves resistance to sulfate attack

Compatibility & Uses

FloTek™ 443 is recommended for concrete applications requiring higher flowability and enhanced early and ultimate strengths. It allows contractors and superintendents to place concrete with improved workability and strength while lowering placement labor costs.

FloTek 443 is fully compatible with all types of Portland cement, Class C and F fly ash, silica fume, calcium chloride, fibers, and approved admixtures including air-entraining, accelerating, retarding, and water-reducing agents. It can be used effectively in white, colored, and architectural concrete. For best results, each admixture should be dispensed separately into the concrete mix.

Dosage

FloTek™ 443 is recommended at a dosage rate of 10 to 26 ounces per 100 pounds (652 mL to 1695 mL per 100 kg) of cementitious material. Because local job conditions may vary, dosage requirements should be confirmed through trial mixes. For additional guidance, contact your Riteks technical service representative.

Specifications

Conforms to:

ASTM C 494 Types A and F
ASTM C 1017 Type I
AASHTO M 194 Types A and F
CRD C 87 Types A and F
All other Federal and State specifications

Compatibilities

Can be used in combination with other Riteks admixtures. Testing for compatibility is recommended when using with non-Riteks products.

Packaging/Storage

5 gallon pails, 55-gallon drums, 275-gallon tote tanks and bulk delivery. 18 month shelf life.

May freeze at temperatures below 32 F (0 C) If frozen, thaw at 40 F (4 C) or higher and reconstitute with mild agitation. Do Not Use Pressurized Air For Agitation.



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