

UltraFlo® 4600

Multi-Range Water-Reducing Admixture for Concrete

DESCRIPTION:

UltraFlo® 4600 is a normal setting multi-range water-reducing admixture for concrete. It is designed to facilitate the placing and finishing of concrete that is highly flowable and workable for extended periods of time with normal setting characteristics.

By varying the dosage rate, **UltraFlo® 4600** can be used as a normal, mid-range and high-range water-reducing admixture.

ADVANTAGES:

- Improves the quality of concrete by decreasing water-cementitious ratio
- Increases early and ultimate compressive and flexural strengths
- Improves durability and reduces permeability
- Reduces water content needed for a given workability
- Reduces excess surface bleeding
- Reduces cracking, creep, and shrinkage
- Improves concrete viscosity, reduces segregation and increases cohesiveness
- Improves paste quality, concrete finishability and workability
- Improves pumpability of concrete
- Reduces “bug-holes” and improves formed surfaces
- Maintains slump life during extended mixing times
- Improves bond strength to the steel

DOSAGE RATE:

UltraFlo® 4600 is recommended for use at a dose of 7 to 30 fluid ounces per 100 pounds (456 to 1957 mL per 100 kg) of cementitious to meet the requirements



of ASTM C 494 Type A water-reducing and Type F high-range water-reducing admixture.

Because local job conditions and materials vary, contact your local Premiere Concrete Solutions Specialist for further assistance if using this product outside recommended dosage ranges (such as silica fume) or when combining with other admixtures.

SPECIFICATIONS:

Conforms to:

ASTM C 494 Types A and F

AASHTO M 194 Types A and F

CRD C 87 Types A and F

All other Federal and State specifications

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COMPATIBILITY:

UltraFlo® 4600 is compatible with all types Portland cement, class C and F fly ash, silica fume, GGBFS, fibers, approved air entraining, and water-reducing admixtures. **UltraFlo® 4600** can be used in white, colored, and architectural concrete. For best results, each admixture must be introduced separately into the concrete mix.

MIX PERFORMANCE DATA:

517 lbs. (307 kg) of Type I cement per cubic yard (cubic meter)

Air Content: 5.0%

Slump Plain: 1.0 inches (25.4 mm)

Slump after water: 7.5 inches (191 mm)

Slump after (12oz/cwt) **UltraFlo® 4600**
7.0 inches (178 mm)

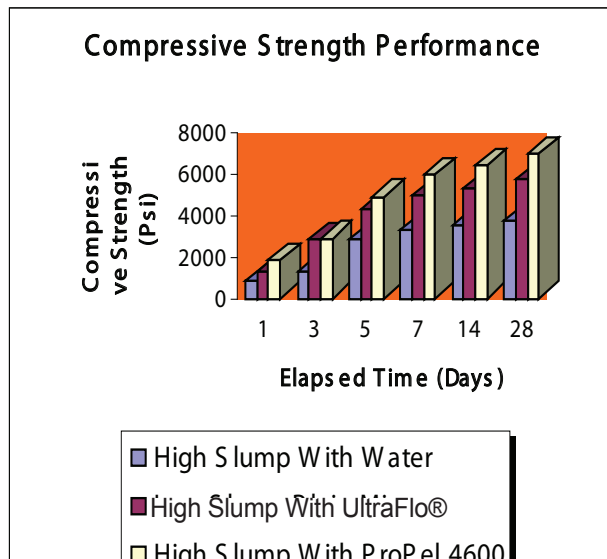
TECHNICAL NOTE:

UltraFlo® 4600 does not contain calcium chloride or any chloride-based components. It will not promote or contribute to corrosion of reinforcing steel in concrete. **UltraFlo® 4600** conforms to the minimum chloride ion limits published by current construction industry standards.

PACKAGING:

55-gallon drums, 275-gallon totes, and bulk delivery

Compressive Strength:



DIRECTIONS:

UltraFlo® 4600 should be added with the initial mixing water or incorporated with the final water at the end of the batch sequence.

STORAGE:

UltraFlo® 4600 may freeze at temperatures below 35°F (2°C). Although freezing does not harm **UltraFlo® 4600**, precautions should be taken to protect it from freezing. If it should freeze, thaw at 45°F and reconstitute with mechanical agitation. **Do Not Use Pressurized Air For Agitation.**

SHELF LIFE:

18 months

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