

OptiFlo® 500

Water-Reducing Admixture for Concrete

PRODUCT INFORMATION

PACKAGING

Packaged in 55gallon drums, 275gallon totes, and in bulk.

SHELF LIFE

2 years in original unopened container.

STORAGE

OptiFlo® 500 may freeze at temperatures below 35°F (2°C).

Although freezing does not harm

OptiFlo® 500, 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.**

SPECIFICATIONS/COMPLIANCES

ASTM C494 Type A and D

AASHTO M 194 Type A and D

DESCRIPTION

OptiFlo® 500 can be utilized as a water reducing admixture, or a water-reducing and retarding admixture, formulated to enhance the quality and performance characteristics of plastic and hardened concrete. Its unique chemistry results in efficient hydration of the cementitious materials in the concrete matrix, and provides improved strength, durability, finishability and overall appearance.

PERFORMANCE BENEFITS

- Reduces w/cm ratio
- Increases compressive/ flexural strengths
- Improves finishability
- Improves workability
- Uniform set control
- Reduces cracking and shrinkage

DOSAGE RATES AND DIRECTIONS FOR USE

Important: Recommended dosage applies when no additional water reducers are included in the mix design. When using water reducing admixtures in combination, the dosage will vary to meet ASTM standards. Consult your local technical sales rep for those combination dosages.

By varying the dosage rate, OptiFlo® 500 can be used as a low-range water reducer, or a water reducing and retarding admixture.

Recommended Dosage OptiFlo® 500		
Water Reducing	2 - 3 oz/cwt	130 – 195mL/100kg
Water Reducing and Retarding	3 - 5 oz/cwt	195 – 325 mL/100kg
<i>Dosage is per hundred-weight of cementitious material.</i>		

For best results, each admixture must be batched at separate intervals with the initial or final batch water, and should not come in direct contact with any other admixture until they are mixed in the concrete batch. Admixtures should not come in contact with any dry cementitious material.

TECHNICAL NOTES

OptiFlo® 500 is compatible with Portland cements, Portland limestone cements, blended cements, class C and F fly ash, slag cements, silica fume, calcium chloride, and fibers. OptiFlo® 500 can be used in all white, colored, and architectural concrete.

PRECAUTIONS/LIMITATIONS

This product does not contain calcium chloride or chloride containing compounds, and any chloride ions present are in trace amounts resulting from municipal water used during the manufacturing process.

This product is compatible with most other admixtures when added to the mix separately. Always conduct trial batches, prior to job applications, to confirm compatibility and to verify mix results. Contact your technical sales representative before dosing outside of recommended ranges or for assistance with specialty applications.

In all cases, consult the safety data sheet prior to use.

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