

OptiFlo® 50

Water-Reducing Admixture for Concrete

DESCRIPTION:

OptiFlo® 50 is a ready to use liquid chemical admixture formulated from a blend of high quality lignosulfonate and other proprietary ingredients designed to enhance the performance of plastic and hardened concrete.

OptiFlo® 50 is manufactured under rigid quality control measures to provide uniform, reliable results.

OptiFlo® 50 is designed to facilitate the placing and finishing of concrete, and is recommended for mixes where reduced water content and improved cement performance is desirable.

ADVANTAGES:

- Improves the quality of concrete by decreasing water-cement ratio
- Increases early and ultimate compressive and flexural strength
- Increases density and relative durability
- Resists damage caused by freezing and thawing
- Reduces water content needed for a given workability
- Reduces cracking and shrinkage
- Reduces surface bleeding
- Reduces mix segregation
- Provides variable control of setting time based on dosage rate
- Improves pumpability of concrete

COMPATIBILITY:

OptiFlo® 50 is compatible with all types of Portland cement, class C and F fly ash, slag, micro-silica, calcium chloride, fibers and approved air entraining and accelerating admixtures. Field evaluations to determine proper air entrainment dosage rates are suggested when using **OptiFlo® 50**. As the dosage rate of **OptiFlo® 50** is increased, the addition rate of air entraining admixture may be reduced by 25% to 50% to achieve the desired air content of the concrete mix.

For best results, each admixture should be dispensed separately into the concrete mix.



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® 50 is recommended for use at a dosage rate of 3 to 8 fluid ounces per 100 pounds (196 to 521 mL per 100 kg) of cementitious materials. Dosage rates will vary depending on local materials and concrete performance objectives. OptiFlo® 50 meets ASTM C494 Type A at 3-5 oz/cwt and ASTM Type D at 5-8 oz/ cwt.

Your technical sales representative will be happy to assist you in determining the optimum dosage rate to achieve your specific performance objectives.

Because local job conditions vary, please contact your local technical sales representative for further assistance if using outside recommended dosage ranges.



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SPECIFICATIONS:

Conforms to ASTM C 494 Types A and D, AASHTO M 194 Types A and D CRD C 87 Types A and D

TECHNICAL NOTE:

OptiFlo® 50 does not contain any purposely-added calcium chloride or other chloride based components. It will not promote or contribute to corrosion of reinforcing steel in concrete

STORAGE

OptiFlo® 50 may freeze at temperatures below 35° F (2° C). Although freezing does not harm **OptiFlo® 50**, precautions should be taken to protect it from freezing. If **OptiFlo® 50** should happen to freeze, thaw and reconstitute with mechanical agitation.

PACKAGING:

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

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