
RUSSTECH[®]

LC-500

WATER-REDUCING AND SET RETARDING ADMIXTURE FOR CONCRETE

DESCRIPTION:

LC-500 is a normal setting water-reducing admixture for concrete. It is designed to facilitate the placing and finishing of concrete while providing control over set time.

LC-500 is also a set retarding admixture beneficial during hot weather concreting operations when control of setting time and maintenance of placeable consistency are essential.

ADVANTAGES:

- Improves the quality of concrete by decreasing water-cementitious ratio
- Increases strengths both compressive and flexural
- Increases density and relative durability
- Reduces damage caused by freezing and thawing
- Reduces water content needed for a given workability
- Reduces surface bleeding
- Reduces cracking and shrinkage
- Reduces segregation
- Improves finishability and workability of concrete
- Improves pumpability of concrete
- Maintains slump life during extended mixing times
- Provides variable control of setting time based on dosage rate
- Reduces peak heat of hydration in mass concrete placements, consequently, reducing thermal cracking
- Helps prevent occurrence of cold joints during placement
- Lowers inventory costs at batch plant-one product performs dual purpose

DOSAGE RATE:

LC-500 is recommended for use at a dose of 3 to 5 fluid ounces per 100 pounds (196 to 327 ml Per 100 kg) of cementitious to meet the requirements of ASTM C-494, Type A water-reducing, Type B retarding, and Type D water-reducing and retarding.

LC-500 is normally added to the concrete mix at the following dosage rates to meet requirements of ASTM C-494, Types B and D, retarder as a function of temperature:

65 F (18 C) to 75 F (24 C) – 3.5 ounces per 100 pounds (229 ml per 100 kg) of cementitious

75 F (24 C) to 85 F (29 C) – 4 ounces per 100 pounds (261 ml per 100 kg) of cementitious

85 F (29 C) to 90 F (32 C) – 4.5 ounces per 100 pounds (294 ml per 100 kg) of cementitious

90 F (32 C) to 100 F (38 C) – 5 ounces per 100 pounds (327 ml per 100 kg) of cementitious

Because local job conditions vary, contact your local RussTech technical service representative for further assistance if using this product outside recommended dosage ranges or when combining with other admixtures.

SPECIFICATIONS:

Conforms to:
ASTM C 494 Types A, B and D
AASHTO M 194 Types A, B and D
CRD C 87, Types A, B and D
All other Federal and State specifications

TECHNICAL NOTE:

LC-500 does not contain calcium chloride or any chloride-based components. It will not promote or contribute to corrosion of reinforcing steel in concrete.

COMPATIBILITY:

LC-500 is compatible with all types Portland cement, class C and F flyash, silica fume, fibers, approved air entraining, water reducing, and superplasticizing admixtures. **LC-500** can be used in white, colored, and architectural concrete. For best results, each admixture must be introduced separately into the concrete mix.

STORAGE:

LC-500 may freeze at temperatures below 35 F (2 C). Although freezing does not harm **LC-500**, precautions should be taken to protect it from freezing. If it should freeze, thaw and reconstitute with mechanical agitation. **Do Not Use Pressurized Air For Agitation.**

PACKAGING:

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

SHELF LIFE:

18 months

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