

## **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 dosage range of 3 to 4 fluid ounces per 100 pounds (196 to 261 ml Per 100 kg) of cementitious materials to meet the requirements of ASTM C-494, Type A water-reducing admixture specification and 5 to 6 ounces (326 to 391 ml Per 100 kg) of cementitious materials to meet the requirements of ASTM C-494 Types B and D, retarding and water-reducing and retarding admixture specifications.

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

#### **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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