



OT-2870

Water Retarder Additive

RETARD LC-400R

FEATURES

- Provides variable control of setting time based on dosage rate
- Improves quality of concrete by decreasing water-cement ratio
- Increases strengths both compressive and flexural
- 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 segregation
- Provides superior finishability on all flatwork and pre-cast surfaces
- Improves pumpability of concrete
- Maintains slump life during extended mixing times
- Aids to reduce peak heat of hydration in mass pour concrete, reducing ther-

PROPERTIES

Appearance: Milky white emulsion water soluble with no particular odor

Boiling point: 212 °F

pH: 5-7

Conforms to:

ASTM C 494 Types B and D

AASHTO M 194 Types B and D

CRD C 87 Types B and D

See SDS for additional specifications

- Properties are typical and subject to usual Manufacturing tolerances.

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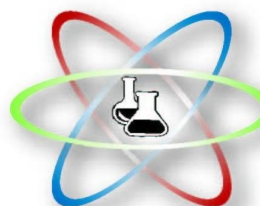
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RETARD LC-400R is a set retarding, water-reducing multi-component admixture for concrete. It is designed to facilitate the placing and finishing of concrete while providing control over the set time. RETARD LC-400R is especially beneficial during hot weather concreting operations when control of setting time and maintenance of a placeable consistency are essential. It does not contain calcium chloride or any chloride-based components. It will not promote or contribute to corrosion of reinforcing steel in concrete.

DOSAGE RATE:

-use at a dosage rate of 3 to 6 fluid ounces per 100 pounds (200 to 390 mL per 100 kg) of cement .

-it is normally added to the concrete mix at the following dosage rates as a function of temperature:

- 70 F (21 C to 24 C) - 3 fl oz. per 100 pounds (200 mL per 100 kg) cement
- 75 F (18 C to 27 C) - 4 fl oz. per 100 pounds (260 mL per 100 kg) cement
- 80 F (27 C to 30 C) - 5 fl oz. per 100 pounds (330 mL per 100 kg) cement
- 85 F and up (30 C to 33 C) - 6 fl oz. per 100 pounds (390 mL per 100 kg) cement

As the dosage rate of RETARD LC-400R increases, concrete set times are increased at the rate of approximately 1/2 to 1 hour for each additional 1 ounce (65 mL) per 100 pounds (100 kg) cement. Workability is improved and ultimate strengths are also increased.

It is compatible with all types of Portland cement, class C and F fly ash, silica fume, fibers, approved air entraining, water-reducing, and super-plasticizing admixtures. LC-400R can be used in white, colored, and architectural concrete. For best results, each admixture must be added separately into the concrete mix.

The information contained in this safety sheet is aimed at creating a guide for the selection and use of the product. However, we are not responsible for any use not recommended by ChemTron.

PROFESSIONAL CONCRETE PRODUCTS