

ProLong® L

Hydration Stabilizing Admixture for Concrete

DESCRIPTION:

ProLong L® is a ready-to-use liquid solution manufactured to control the hydration process in Portland cement concretes and concrete wash water. This advanced hydration modifier coats the hydrating cement particles in the concrete and wash water, resulting in the delay of the hydration chemical reaction. **ProLong L®** provides a means to control concrete plasticity, slump, temperature, and postpones the set of the concrete for a predictable period of time. Eventually, the **ProLong L®** dosage is chemically consumed and normal hydration continues.

ADVANTAGES:

- Controls peak temperature rise in the concrete and provides temperature control
- Permits long haul applications for extended haul times without slump loss
- Provides extended truck discharge times
- Provides control of concrete set characteristics and improved ultimate compressive strength performance over conventional concrete.
- Reduces expensive disposal costs associated with returned concrete.
- Reduces concrete wash water disposal
- Reduces amount of concrete wash water needed and truck mixer washout
- Reduces expensive disposal costs associated with concrete wash water
- Allows reuse of concrete wash water overnight or over a weekend in many situations
- Provides a quality, profitable, and reliable method to treat returned concrete for reuse or hold (for a few hours) and then reuse on the same day.
- Reduces central mixer washout and washout water
- Provides easier "next day" concrete clean up



SPECIFICATIONS:

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

COMPATIBILITY:

ProLong L® is compatible with all types of Portland cement, class C and F fly ash, silica fume, GGBFS, fibers, approved air entraining, and water-reducing admixtures. For best results, each admixture must be introduced separately into the concrete mix.



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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.

The recommended dosage of **ProLong L®** for treatment of concrete wash water is 24 to 80 ozs. per truck. The specific dosage will depend on ambient temperature and desired stabilization period. The table below provides specific dosages for use with typical Type I cement:

Wash Water Stabilization Dosages (fluid ounces/truck)		
Stabilization Period		
Ambient Temperatures	Overnight	Over The Weekend
30°F to 50°F	24 ozs.	48 ozs.
51°F to 75°F	32 ozs.	64 ozs.
76°F to 100°F	40 ozs.	80 ozs.

Concrete wash water treated with **ProLong L®** can be re-dosed *once* to extend the use of wash water as mix water.

The recommended dosage of **ProLong L®** for stabilization of returned concrete is 1 to 35 ozs. per 100 lbs. (65 to 2283 mL per 100 kg) of Portland cement.

The exact dosage will depend on age of the returned concrete, returned concrete temperature, admixtures used, cement chemistry, stabilization time period, specific materials involved, and the mix design incorporated. Contact your local technical sales representative for recommended dosages and for assistance when using this product to stabilize returned concrete.

The recommended dosage of **ProLong L®** for long haul applications, temperature control and extended truck discharge times is 2 to 10 ozs. per 100 (130 to 650 mL per 100 kg) lbs. of Portland cement. The exact dosage rate will depend on additional plastic time required, fresh concrete temperature, ambient conditions, admixtures used and specific materials involved.

Contact your local technical sales representative for recommended dosages and for assistance when using this product to stabilize concrete in long haul applications, control temperature or to extend truck discharge times.

STORAGE

ProLong L® may freeze at temperatures below 35°F (2°C). Although freezing does not harm **ProLong L®**, precautions should be taken to protect it from freezing. If it should freeze, thaw at 45°F and reconstitute with mechanical agitation. Do Not Use Pressurized Air For Agitation.

PACKAGING:

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

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