

ProLong® L

Hydration Stabilizing Admixture for Concrete

PRODUCT INFORMATION

PACKAGING

Packaged in 55 gallon drums, 275 gallon totes, and in bulk.

SHELF LIFE

2 years in original unopened container.

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.**

SPECIFICATIONS/COMPLIANCES

ASTM C494 Type B and D
AASHTO M 194 Type B and D

DESCRIPTION

ProLong® L is a ready-to-use liquid solution manufactured to control the hydration process in cementitious concretes and concrete wash water. This advanced hydration modifier coats the hydrating cementitious 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.

PERFORMANCE BENEFITS

- Provides stabilization of wash water for reuse
- Treat returned concrete for same day reuse
- Permits extended haul times without slump loss
- Controls peak temperature rise in the concrete and provides temperature control
- Reduces returned concrete disposal costs
- Reduces amount of concrete wash water needed and truck mixer washout
- Reduces central mixer washout and washout water

DOSAGE RATES AND DIRECTIONS FOR USE

ProLong® L may be used for wash water stabilization, stabilization of returned concrete, and for long haul applications at the following recommended dosages:

Wash Water Stabilization	24 – 80 oz/truck	1560 – 5200 mL/truck
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The specific dosage will depend on ambient temperature and desired stabilization period. Concrete wash water treated with **ProLong® L** can be re-dosed once to extend the use of wash water as mix water.

Stabilization of Returned Concrete	1 – 35 oz/cwt	1560 – 5200 mL/100kg
<i>Dosage is per hundred-weight of cementitious material.</i>		

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.

Long Haul Applications	2 – 10 oz/cwt	130 – 650 mL/100kg
<i>Dosage is per hundred-weight of cementitious material.</i>		

The exact dosage rate will depend on additional plastic time required, fresh concrete temperature, ambient conditions, admixtures used and specific materials involved.

For best results, each admixture must be batched at separate intervals with the initial or final batch water, and should not come in direct contact with any other admixture until they are mixed in the concrete batch. Admixtures should not come in contact with any dry cementitious material.

TECHNICAL NOTES

Dosage Chart for Extended Haul (oz/cwt of cementitious)					
Concrete Temperature (°F)	Retardation (hours)				
	.5 – 1hr	>1 – 1.5hrs	>1.5 – 2hrs	>2 – 2.5hrs	>2.5 – 3hrs
100-109	5.0	5.5	6.0	7.0	7.5
90-99	4.0	4.5	5.5	6.0	7.0
80-89	3.0	3.5	4.5	5.0	6.0
70-79	2.0	3.0	3.5	4.5	5.5
60-69	1.0	2.0	3.0	4.0	4.5

ProLong® L is compatible with Portland cements, Portland limestone cements, blended cements, class C and F fly ash, slag cements, silica fume, calcium chloride, fibers, air-entraining and water-reducing admixtures. **ProLong® L** can be used in all white, colored, and architectural concrete.

PRECAUTIONS/LIMITATIONS

This product does not contain calcium chloride or chloride containing compounds, and any chloride ions present are in trace amounts resulting from municipal water used during the manufacturing process.

This product is compatible with most other admixtures when added to the mix separately. Always conduct trial batches, prior to job applications, to confirm compatibility and to verify mix results. Contact your technical sales representative before dosing outside of recommended ranges or for assistance with specialty applications.

In all cases, consult the safety data sheet prior to use.

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