

THERMO-LUBE

PRODUCT NO. 1905

DIVISION 3

Maintenance of Concrete
03 01 00

PRODUCT DESCRIPTION

QUIKRETE® Thermo-Lube (#1905) is an accelerating admixture liquid for concrete and mortar in cold weather, hastening the hydration of Portland cement which enables the cement to harden before freezing.

PRODUCT USE

QUIKRETE® Thermo-Lube is used as an additive to concrete and mortar to help accelerate the set and reduce the time that the fresh concrete needs to be protected from freezing. It is also excellent as a "wetting" agent or a lubricant to allow for more workability. QUIKRETE® Thermo-Lube meets ASTM specification C 494 for Type C Accelerating Admixtures as shown in Table 1B. Early strengths are also enhanced by the addition of QUIKRETE® Thermo-Lube without adversely affecting later strengths. It also imparts excellent workability to all concrete and mortar mixes at any temperature.

SIZES

• QUIKRETE® Thermo-Lube is available in 1 gallon (3.8 L), 5 gallon (19 L), and 55 gallon (208 L) sizes

TECHNICAL DATA

APPLICABLE STANDARDS

ASTM International
• ASTM C494/C494m *Standard Specification for Chemical Admixtures for Concrete*

RATE OF APPLICATION

• For best results, use within the recommended dosage range shown in Table 1A. For maximum acceleration use the highest recommended dosage. Do not under any circumstances use more than the maximum recommended dosage.

Table 1A: Recommended Dosage Range:

94# (42.6 kg) bag Portland Cement	20-78 fl. oz. (590 - 2310 ml)
80# (36.3 kg) bag Concrete Mix	3- 10 fl.oz. (90- 300 ml)
80# (36.3 kg) bag Mortar Mix	2 - 8 fl.oz. (60 - 240 ml)
60# (27.2 kg) bag Concrete Mix	2 - 8 fl.oz. (60 - 240 ml)
60# (27.2 kg) bag Mortar Mix	1.5 - 6 fl.oz. (45 - 175 ml)



Table 1B: Thermo-Lube Testing

A "Six Bag" Concrete Mix	with Thermo-Lube	without Thermo-Lube
Water Demand (% by wt)	8.0	9.0
Slump	2.5 in. (64 mm)	2.5 in (64 mm)
Set Time (min.)		
Initial	110	215
Final	155	275
Compressive Strength, psi (MPa)		
3 day	4540 (31.3)	3140 (21.7)
7 day	5020 (34.6)	4130 (28.5)
28 day	6090 (42.0)	5780 (39.9)

PRECAUTIONS

• **Contains Calcium Chloride.** Do not use in areas that will be in contact with steel reinforcement. If color is important, dosage rate should be established and consistently maintained throughout the project.

WARRANTY

The QUIKRETE® Companies warrant this product to be of merchantable quality when used or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of its product (as purchased) found to be defective, or at the shipping companies' option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to The QUIKRETE® Companies in writing. This limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.

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