AQUA KURE™

- *Clear*
- *Dye*
- *Clear DOT*

Water based liquid membrane forming concrete curing compound

Advantages:

- Most economical of all curing methods
- Permits proper hydration
- Assures full-strength concrete
- Prevents scaling, hair checking, and dusting
- May be tinted
- Easy application
- Dries quickly and uniformly
- Becomes brittle and disintegrates after curing period

Coverage:

- 200 ft^2 per gallon ($4.9m^2$/L)

See Coverage section for full details

Packaging:

5 gal (18.9L) pail
55 gal (209 liter) drum
DOT – 55 gal (209 liter) drum

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Product Description

The AQUA KURE™ CLEAR line forms a surface membrane that controls the moisture loss, aids in the proper hydration of cement, and ensures rapid development of early strength and the ultimate design strength of the concrete. Formulated with a high molecular weight hydrocarbon resin that is designed to provide maximum moisture retention for the first 7-14 days of curing and then begins to disintegrate by a process of oxidation. The AQUA KURE™ CLEAR membrane is generally disintegrated within a period of 30 to 120 days for exterior applications that are exposed to sunlight rays, moisture, and surface traffic. After oxidation, the concrete may be painted, sealed, or vinyl tiled. AQUA KURE™ CLEAR and FUGITIVE DYE curing compounds are available in two groups of product, one for State Department of Transportation application (state certified), and the second for construction application meeting ASTM C-309 specifications. AQUA KURE™ CLEAR, when tested according to the water retention test ASTM C-156, will restrict the loss of water to not more than 0.55kg/m^2 in 72 hours. AQUA KURE™ CLEAR, when tested according to the water retention test ASTM C-156, will restrict the loss of water to not more than 0.55 kg/m^2 in 72 hours.

Protection of concrete is considered vital in today's high-tech world. This is particularly true of structures like bridges and highways that are subject to a variety of damaging chemicals and physical abuse. Most concrete engineers are unanimous in their insistence that fresh concrete be protected as quickly as possible with a concrete curing compound. The concept of a liquid membrane system for curing concrete was developed in the early 1950's. It was a great simplification over the previous curing methods. The AQUA KURE CLEAR™ line is a thoroughly tested water based liquid membrane curing compound that will conform to ASTM C-309, federal, state, county, and municipal specifications. It provides efficient, economical concrete curing for all types of construction.

Installation

Before using this product, please refer to the Material Safety Data Sheet for additional information. Proper handling precautions MUST be followed. The conditions of use, handling, and application of this product and information (whether verbal or written), including any suggested formulations and recommendations, are beyond Lambert Corporation's control. Therefore, it is imperative that testing be performed to determine satisfaction and suitability for intended use and health, safety, and environmental issues. The following information is meant as a guideline of best industry practices. While Lambert Corporation does suggest adherence to these guidelines, unforeseeable variables and/or developed successful installer practices may cause variation in methods and/or results.

Horizontal Surfaces

Curing compounds only work if they are on top of the concrete surface and do not penetrate. The timing of application is important. AQUA KURE™ CLEAR should be applied after setting of cement, immediately after evaporation of the surface water sheen and the concrete surface will not be marred by foot traffic. It is during this time that the concrete is most vulnerable to spalling, hair checking and other surface defects. If surface is dry, it should be completely dampened (no puddles) before applying AQUA KURE™ CLEAR.

Vertical Surfaces

Application should be made immediately after the forms have been removed and walls are rewetted with clean water. Allow excess water to run off before applying AQUA KURE™ CLEAR. For uniform application on vertical surfaces, two coats applied at an interval of approximately 4 hours may achieve the specified rate of application. Do not apply to interfacing of channels to be caulked with

"elastometric" sealants. This can be avoided by masking.

Application Methods

Stir AQUA KURE™ CLEAR thoroughly prior to use. Do not dilute or alter product. Apply with spray, brush, roller, or lambs wool applicator. On smooth concrete use spray, lambs wool applicator or short-nap roller. On rough concrete (broomed or textured) use spray, brush, or long-nap roller. Apply uniformly to form a continuous film on the surface without thick or "ponded" areas. A power airless sprayer will give best results for large areas. Industrial low-pressure type pump sprayer with neoprene hose and gaskets may be used for small areas. To ensure proper application with sprayers, use only a clean or new industrial grade sprayer equipped with a non-adjustable fan tipped nozzle, neoprene hose and gaskets. Maintain sufficient pump pressure throughout application. Uniform surface coverage is essential; avoid "puddling" in low areas. If material starts to come out in a stream, versus a fog, or starts to come out in spits and sputters, the nozzle has become clogged. Stop immediately and clean nozzle with lacquer thinner before proceeding. Clean the sprayer immediately after use with a lacquer thinner flush.

Cautions

Apply at temperatures above 50°F (10°C). Use adequate ventilation. For interior applications, ventilation system should be capable of exchanging total air volume in application area in 30 minutes or less. Avoid prolonged or repeated breathing of vapor or spray mist. KEEP OUT OF THE REACH OF CHILDREN. Contains a petroleum distillate. Keep away from heat or open flame. Empty containers may contain explosive vapors or residues Do not cut or weld empty container. Store empty container away from sources of ignition.

Limitations

AQUA KURE™ CLEAR is a disintegrating resin-curing compound. The material forms a membrane for proper curing, then becomes brittle and begins to chemically break down after approximately 7-14 days. There are a number of factors that will determine the amount of time needed for AQUA KURE™ CLEAR to break down and disintegrate. This includes coverage rate, method of application, time of application, and whether the concrete is subject to sunlight rays and weathering. Under normal conditions and proper application, the AQUA KURE™ CLEAR will break down in 30 days. At the 30 day period, the resin residue must be removed from the surface or tests be conducted for compatibility of subsequent coatings. If the resin membrane is not totally disintegrated, removal is done through a stiff wire brooming of the surface or through a riding floor scrubber for larger areas. Around columns, perimeters near walls or areas where film has not been exposed to traffic or sunlight, removal may entail grinding, sandblasting or liquid strippers depending on the thickness of the residual film. Once the AQUA KURE™ CLEAR has broken down, disintegrated, and been removed, the surface may still need further preparation depending on what is to be applied to it. Good concrete paints, liquid floor hardeners, sealers, ceramic tile cements, are formulated to give maximum adhesion when applied to a clean concrete surface. Follow the surface preparation requirements of the manufacturer of the subsequent product to be installed over AQUA KURE™ CLEAR.

The resin used to manufacture AQUA KURE™ CLEAR is yellowish/amber in color and will cause an amber color to appear on the concrete surface until oxidation is complete. On white or colored concrete surfaces, it is advisable to make a test application to insure the acceptability of the light amber color of AQUA KURE™ CLEAR prior to disintegration.

Test areas should be applied when uncertain of surface conditions or unfamiliarity of product exists. Tests will determine if the surface is properly prepared for adequate adhesion, best method of application, and probable coverage rate.

Technical Data

Applicable Standards

- ASTM C-309-91, Type 1 & 1-D, Class A,B.
- AASHTO-M148, Type 1 & 1-D, Class A,B.
- Florida DOT upon request.
  Liquid Membrane Forming Compounds for Curing Concrete.

Properties

• Color	Yellowish White
• Solids	21%
• Bulk Density	7.45 lb/gal
• Freeze Point	32°F
• Dry Time	2-4 hours

Coverage

Compliance with ASTM C-309 specification is an application rate of 200 square feet per gallon (4.9m^2/liter). Dept. of Transportation application rate is 200 square feet per gallon (4.9m^2/liter).

Clean-Up & First Aid

Clean-Up

Clean brushes, tools, sprayers, rollers and other equipment with lacquer thinner, toluol, or xylol.

First Aid

Eye Contact: Hold eyelids open and immediately flush with plenty of lukewarm water for at least 15 minutes and call a physician. Skin Contact: Wash thoroughly with soap and water. If irritation persists, seek medical aid. Inhalation: Remove from exposure; administer oxygen if breathing is difficult. Ingestion: Do not induce vomiting. Small amounts of liquid aspirated into lungs may cause serious pulmonary injury.

Safety Equipment

Solvent resistant gloves, goggles and if applied in areas of poor or inadequate ventilation, use mine safety mask and canister (Organic Vapor Canister No. 77705 GMA).

KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.