



LEXITE PWC

**Potable Water Coating
100% Solids Epoxy**

1. Product Description

a. **Basic use:** Lexite PWC is a single application, high build epoxy coating approved for potable water contact intended to protect horizontal surfaces against both abrasion and chemical attack. Lexite PWC meets the specifications for extractions studies in accordance with CFR Title 21 polymeric and resinous coatings when extracted under distilled water, heptane and alcohol. Lexite PWC may be applied to most substrates including concrete, brick, stone, wood, metal and other coatings that are firmly bonded to the base substrate.

b. **Features/Benefits:**

- No volatile solvents allows for environmentally safe application.
- Chemical-resistant surface provides for easy cleaning and maintenance.
- USDA approved as an acceptable coating where there is a possibility of incidental food contact.
- Unique hybrid coating provides excellent long term protection to substrate against chemical attack.
- Dense surface will resist mildew and bacteria growth.
- Excellent adhesive properties permit application over other physically sound and firmly bonded coatings.
- One step seamless application reduces or eliminates floor joints and bridges non-moving cracks.
- Consists of 100% epoxy solids to allow total compliance with VOC regulations.
- Contains no volatile solvents, permitting interior applications with virtually no fire hazard or toxic odors.
- Single coat application of up to 35 mils (0.89 mm) saves installation costs by elimination of multiple coats.
- Bonds to itself allowing for multiple coats.
- Available in clear and many standard colors to provide a decorative and high gloss surface.
- Easy clean-up with soap and water.

c. **Typical Applications:** Water storage tanks, cooling towers, water treatment facilities, meat packagers, bakeries, cafeterias, food processing, freezers, laboratories, penitentiaries, refineries, breweries.

d. **Limitations:** Lexite PWC should not be exposed to steel-wheeled traffic or temperatures above 150°F (65°C). Lexite PWC should not be applied when ambient or substrate temperature is below 50°F (10°C).

e. **Composition:** Lexite PWC is a two-component liquid compound consisting of 100% epoxy solids having the viscosity of conventional paint. Lexite PWC is free of all volatile solvents.

f. **Color/Appearance:** Lexite PWC is available in standard colors including; medium gray, concrete-tone gray and clear. Custom colors are available at additional cost when quantities exceed 100 gal. (379 liter).

2. Packaging

Lexite PWC is supplied in units, each containing the proper proportions of liquid components. Standard packaging information is shown below:

| Unit Size | Binder | Activator | Shipping Wt. |
|-------------------------|--------------------------|--------------------------|-----------------------|
| 1 gal. (3.8 liter) | 0.67 gal. (2.5 liter) | 0.33 gal. (1.3 liter) | 11 lbs. (5.0 Kg) |
| 3 gal. 11.4 liter) | 2 gal. (7.6 liter) | 1 gal. (3.8 liter) | 33 lbs. (15.0 Kg) |
| 15 gal. (56.8 liter) | 10 gal. (37.9 liter) | 5 gal. (18.9 liter) | 155 lbs. (70.3 Kg) |

3. Estimating/Coverage

Lexite PWC should be applied at no greater than 100 sq. ft./gal. (2.45 sq. m/liter) which yields a film thickness of 16 mils (0.41 mm). When coating rough surfaces or where additional protection is required, Lexite PWC may be installed at application rates up to 25 sq. ft./gal. (.61 sq. m/liter) which yields a film thickness of 64 mils (1.64 mm).

4. Technical Data

| Resistance to Solvents and Chemicals | |
|--------------------------------------|---------------------------------|
| —ACIDS— | —SOLVENTS— |
| Acetic (Use Diamite AC) -----NR | Acetone -----NR |
| Chromic -----A | Cellosolve -----NR |
| Citric 10% -----A | Ethyl Alcohol -----A |
| Hydrochloric 10% -----A | Methyl Ethyl Ketone -----NR |
| Hydrochloric Conc. -----D | Mineral Spirits -----A |
| Hydrochloric Vapor -----A | Toluene -----A |
| Fatty Acid -----A | Xylene -----A |
| Lactic 10% -----A | —PETROLEUM DERIVATIVES— |
| Muriatic -----A | Aircraft Hydraulic Fluid -----A |
| Nitric Below 5% -----D | Brake Fluid -----A |
| Nitric Above 5% -----NR | Fuel Oil -----A |
| Oleic -----A | Gasoline -----A |
| Phosphoric 50% -----A | Transmission Fluid -----A |
| Sulphuric 10% -----A | —MISCELLANEOUS— |
| Sulphuric 50% -----D | Animal Fats -----A |
| Sulphuric Conc. -----NR | Calcium Chloride -----A |
| —ALKALIS— | Detergent Solutions -----A |
| Ammonium Hydroxide 20% --A | Formaldehyde 37% -----NR |
| Ammonia Vapor -----A | Glycerine -----A |
| Calcium Hypochlorite -----A | Salt Solutions -----A |
| Caustic Cleaners -----A | Urine -----A |
| Sodium Hydroxide 20% -----A | Vegetable Oil -----A |
| Sodium Hypochlorite 5% -----A | Water -----A |

Key: A-Unaffected, D-Discolored; Not Attacked, NR-Not Recommended

5. Directions for Use

a. **Preparation:** The surface to be treated must be physically sound, thoroughly clean, free of oil, wax, loose paint, rust, scale, and completely dry. New concrete must be thoroughly cured for at least 28 days before starting surface preparation. Base concrete must be shotblasted or acid-etched with Bitesin. All acid-etched concrete surfaces must be rinsed and neutralized with potable water and allowed to completely dry.

b. **Priming:** All concrete to receive Lexite PWC must be primed with Diamite primer and allowed to dry tack free. Wood surfaces should be primed with a thin coat of Lexite PWC at the rate of 150 to 200 sq. ft./gal. (3.7 to 4.9 sq. m/liter) and allowed to cure. Sand lightly and apply a full coat of Lexite PWC at 100 sq. ft./gal. (2.45 sq. m/liter).

c. **Mixing:** Thorough blending of all components is essential. Use a power drill with a Metco Jiffy mixing paddle. First, mix the binder separately; then, mix the activator separately. Next, add the mixed activator to the mixed binder and thoroughly blend for at least two minutes at revolution speeds that will not entrap air bubbles into the freshly mixed Lexite PWC. Let stand for two minutes and mix again for one additional minute.

d. **Application:** After the substrate has been primed, distribute the mixed Lexite PWC on the substrate with the use of a Diamite/Lexite Spreader Tool. This allows

the material to be applied at the recommended application rate of 100 sq. ft./gal. (2.45 sq. m/liter). The spreading operation should then be followed by rolling with a short-nap or foam-rubber type paint roller to insure uniformity. The rolling operation should proceed in one direction with slow, even strokes. Avoid short, quick, back-and-forth strokes such as are commonly employed in paint rolling technique.

e. **Working Time/Pot Life:** All mixed Lexite PWC should be poured out of the mixing container within 15 minutes after blending and spread within 45 minutes.

f. **Cure Time:** Lexite PWC becomes tack-free in approximately 8 hours and may be re-coated at this time if additional thickness or mils are desired. The Lexite PWC surface can be exposed to light traffic 18 hours after final application of the coating. Final cure time requires 3 to 5 days. All cure times are based on ambient and substrate temperatures at 70°F (21°C).

g. **Skidproofing:** Lexite Quartz Granules or similar anti-skid aggregate may be broadcast into the coating while it is still fresh. Continue broadcasting until an excess of dry granules or aggregate remains standing on the surface. After curing, remove excess granules or aggregate by thoroughly sweeping with a stiff broom or vacuuming. Apply a seal coat of Lexite PWC with a squeegee, followed by rolling to lock all aggregate in place.

h. **Clean-up:** Either DL Solvent or Waterzall Concentrate and warm water may be used for cleaning tools and equipment.

i. **Maintenance:** Lexite PWC surfaces should be cleaned with a Waterzall Concentrate and water solution. Waterzall Concentrate may also be used at full strength to remove built-up deposits and stains. Lexite PWC may be reapplied to itself after sanding to remove gloss.

6. Availability

Lexite PWC is normally available immediately from your local distributor or it will be shipped within 5 working days upon receipt of order. Custom colors may take up to 8 working days before shipping. Please contact your local Metalcrete representative or call Metalcrete directly for more information.

7. Warranty

Lexite PWC is manufactured in strict accordance with the quality control standards of Metalcrete Industries. It is guaranteed to perform as indicated on this data sheet when applied by competent applicators.

8. Technical Service

Metalcrete technical service representatives are available to provide on-site assistance with a minimum three day notice.



Metalcrete Industries