

## ARMORGARD 505LT- K-505LT

**Description:** Armorgard 505LT is a 100 % solids, self-leveling, primerless, odorless epoxy form coating for precast, tilt-up, slip form or cast-in-place applications. Armorgard 505LT has been formulated to provide a hard, tough coating for wood and metal concrete forms at application temperatures as low as 35°F. Use of Armorgard 505LT transforms a "rough" form into a hard, smooth surface, creating a quality finished cast. Armorgard 505LT does not contain the toxic chemical butyl glycidyl ether (BGE).\*

**Product Advantages:**

- EXTREMELY TOUGH SURFACE
- SINGLE COAT APPLICATION
- ADHERES TO WOOD, CONCRETE, STEEL
- REDUCES FORM PREP TIME
- STYRENE FREE
- BONDS TO DAMP CONCRETE

**Application Guidelines:** Normal application thickness is 20-30 mil (0.50-0.76mm). Application varies depending on the porosity and roughness of the surface. A single build may be applied to horizontal surfaces up to 1/8" thick (125 mil or 0.3 cm).

<b>Handling Properties:</b>	MIX RATIO, pbv	2/1	
	COLOR	Clear	
	MIXED VISCOSITY, cP	@ 77 °F (25 °C) 950	ASTM D 2196
		@ 50 °F (10 °C) 5,000	
	WORKING TIME, min	@ 77 °F (25 °C) 6	
		@ 50 °F (10 °C) 25	
	GEL TIME, min	@ 77 °F (25 °C) 12	ASTM D 2471
		@ 50 °F (10 °C) 38	
	(See the chart on the next page)		
	TACK-FREE TIME, h	@ 50 °F (10 °C) 5-7	
		@ 32 °F (0 °C) 16-20	
		@ 50 °F (10 °C) 9-12	
		@ 32 °F (0 °C) 22-30	
	APPLICATION TEMPERATURE, °F		
	Ideal	45-60	
	Acceptable	35-70	
	COVERAGE* @ 20 mil, ft <sup>2</sup> /gal	80	
	*Varies with porosity of surface		

<b>Physical Properties:</b>	HARDNESS (ASTM D-2240), Shore D		ASTM D-2240
	after 16 hours @ 70 °F	82	
	after 16 hours @ 50 °F	75	
	after 24 hours @ 32 °F	65	
	MAXIMUM SERVICE TEMPERATURE, °F(°C)	150 (66)	
	TENSILE STRENGTH, psi	7,600	ASTM D-638
	ELONGATION @ BREAK, %	7.7	ASTM D-638

\*Butyl Glycidyl Ether. The EPA (SARA Title III, section 312) lists it (BGE) as "Toxic" (per ANSI Z129.1) by skin absorption and an immediate health hazard.

**Surface Preparation:**

To achieve excellent adhesion, the substrate must be free of all loose and foreign material and should be clean. Oils, grease, waxes or other contaminants must be removed prior to coating. These can be removed with a solvent wipe using isopropyl alcohol or acetone or an application of warm (120-140°F) caustic detergent followed by a hot water rinse. Repeat this procedure until the water does not "bead up" on the form. Armorgard 505LT will not bond to a contaminated surface.

Relative humidity and dew point must be determined before application to avoid adhesion failures. The dew point is used to predict the substrate temperature at which air begins to condense, in the form of water, on the substrate. Never apply a coating unless the form surface temperature is 5°F(2.5 °C) above the dew point. This temperature difference must be observed until the epoxy coating is cured to a tack-free state. A dew point calculation chart is available from a Copps Technical Representative.

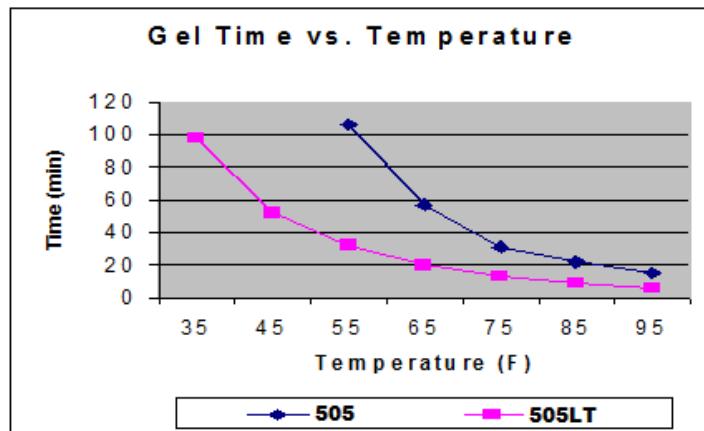
**Mixing:**

The storage temperature of Armorgard 505LT will greatly effect the ease of mixing, application and curing time. For best results, Armorgard should be stored at **(50-70°F or 10-22°C)** for at least 24 hours before use. Mix 2 parts A (resin) to 1 part B (hardener) for 3 minutes using a Jiffy Mixer and a slow speed drill. Mix at slow speed (less than 500 rpm) to avoid air entrainment. DO NOT mix more material than can be used within the stated working time. REMEMBER - you will have less working time at higher temperatures.

**Application:**

Armorgard 505LT can be applied with a squeegee, brush, non-shedding roller or a grooved fiberglass roller. Re-coating a used form requires a light sanding to remove concrete residue and improve surface profile and adhesion. DO NOT "OVERWORK" MATERIAL.

**Below chart illustrates differences in cure speed between Armorgard 505 and Armorgard 505LT in relation to temperature.**



**SAFETY PRECAUTIONS**

Mix and pour in a well-ventilated area. Avoid contact with skin and eyes. If contact does occur, wash skin with soap and water and seek medical help. Read and understand all CAUTIONS on container labels and safety data sheets before using this material.

Avoid breathing of vapors. Forced local exhaust is recommended to effectively minimize exposure. NIOSH approved, organic vapor respirators and forced exhaust are recommended in confined areas, or when conditions (such as heated polymers, sanding) may cause high vapor concentrations. **DO NOT WELD ON, BURN OR TORCH ON OR NEAR, ANY EPOXY MATERIAL. HAZARDOUS VAPOR IS RELEASED WHEN AN EPOXY IS BURNED.**

**FOR INDUSTRIAL USE ONLY**

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