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ARMORGARD 505LT

LOW TEMPERATURE FORM COATING

EXTREMELY TOUGH SURFACE**V.O.C. FREE****SINGLE COAT APPLICATION****BONDS TO DAMP FORMS****ADHESION TO WOOD, CONCRETE AND STEEL****FRIENDLY MIX RATIO (2/1)**

PRODUCT GENERAL INFORMATION

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 provides a convenient work life, rapid tack free time, and adhesion to damp surfaces in low temperature applications. Armorgard 505LT was designed from the start to be the ideal form coating.

Armorgard 505LT can be easily applied with a squeegee or roller. Normal application thickness is 15-30 mil. 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). Armorgard 505LT is conveniently packaged in pre-measured 4 gallon kits or bulk 15 gallon, and 165 gallon kits.

Armorgard 505LT is also available dyed Red & White, which serves as a wear indicator for the coating.

**Dyes are only available for select kit sizes.

HANDLING PROPERTIES

COMPONENTS		Resin, Hardener	
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	ASTM D-2393
	@ 50 °F (10 °C)	25	
GEL TIME, min	@ 77 °F (25 °C)	12	ASTM D-2471
	@ 50 °F (10 °C)	38	
TACK-FREE TIME, h	@ 50 °F (10 °C)	5-7	
	@ 32 °F (0 °C)	16-20	
INITIAL CURE, h	@ 50 °F (10 °C)	9-12	
	@ 32 °F (0 °C)	22-30	
APPLICATION TEMPERATURE, °F			
Ideal		45-60	
Acceptable		35-70	
COVERAGE* @ 15 mil, ft ² /gal		120	

*Varies with porosity of surface

TYPICAL CHARACTERISTICS

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	
TENSILE STRENGTH, psi	7,600	ASTM D-638
ELONGATION @ BREAK, %	7.7	ASTM D-638

SURFACE PREPARATION

To achieve excellent adhesion, the substrate should 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. 505LT will not bond to a contaminated surface.

HUMIDITY/DEW POINT

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 above the dew point. A dew point calculation chart is available from a Copps Technical Representative.

MIXING

The storage temperature of 505LT will greatly effect the ease of mixing, application and curing time. For best results, 505LT 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 850 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

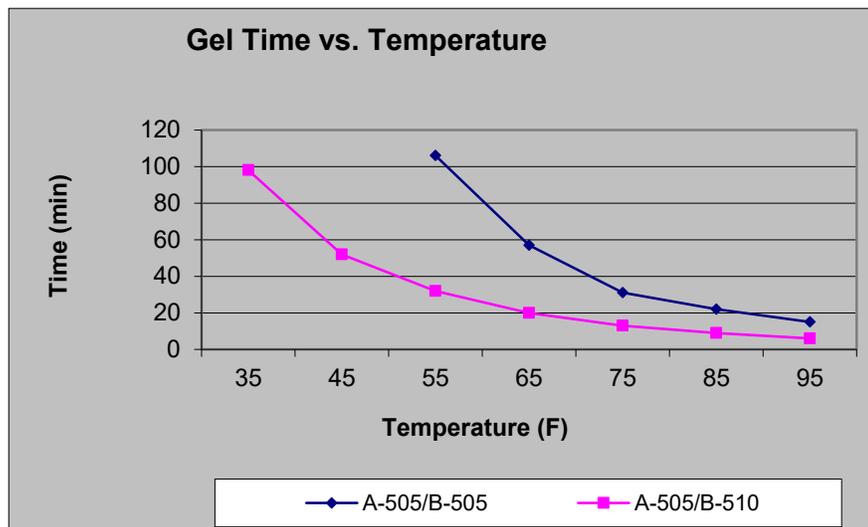
505LT can be applied with a squeegee, brush, non-shedding roller or a grooved fiberglass roller. Re-coating a used form requires a light sanding to remove concrete residue and improve surface profile and adhesion.

CLEAN-UP

Armorgard 505LT, before it is fully cured (hard), may be removed from tools with Copps Enviro Kleen solvent or warm soapy water.

SAFETY PRECAUTIONS

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 polymer, sanding) may cause high vapor concentrations. Do not weld on, burn or torch Armorgard 505LT or any epoxy material. Hazardous vapor is released when an epoxy is burned. Avoid skin or eye contact. Wash skin with soap and water if contact occurs. If eye contact occurs flush with water for 15 minutes and obtain medical attention.



WARRANTY AND DISCLAIMER

Copps Industries, Inc. gives no warranty, express or implied, and all products are sold upon condition that purchasers will make their own tests to determine the quality and suitability of the product. Copps Industries, Inc. shall be in no way responsible for the proper use and service of the product. The information given in this publication is considered to be accurate and reliable and is provided as a service only. Physical properties shown are typical. Actual properties are dependent on curing conditions and degree of cure. Any information or suggestions given are without warranty of any kind and purchasers are solely responsible for any loss arising from the use of such information or suggestions. No information or suggestions given by us shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.

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