

The above recommendations are based on a 28 day immersion @ 72°F (22°C).

**Surface  
Preparation:**

Armorgard 507 is used to strengthen and seal a porous concrete substrate, therefore, adhesion is paramount. To achieve excellent adhesion, the substrate should be free of all loose and foreign material and should be roughened slightly to provide a coarse profile by shot blasting.

Before blasting, any contaminants on/in the concrete must be identified. Oils, grease, fats, waxes or other contaminants must be removed prior to roughening the concrete. These can be removed with an application of warm (120-140°F) caustic detergent, steam cleaning or pressure washing. De-grease the floor, follow with a hot water rinse.

Repeat this procedure until the water does not "bead up" on the concrete.

Shot blasting using self-propelled, self-contained equipment is the recommended preparation method.

**NEW CONCRETE MUST CURE A MINIMUM 28 DAYS PRIOR TO THE APPLICATION OF ANY EPOXY.  
CONCRETE MUST BE TESTED FOR MOISTURE AND VAPOR TRANSMISSION BEFORE APPLICATION.**

**Mixing:**

To mix Armorgard 507 pour the contents of the pail marked Hardener into the larger Resin pail. Immediately mix for 3 minutes (or until uniform) 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.

Armorgard 507, before it has hardened, can be removed from tools with Copps Enviro Kleen solvent.

**Application:**

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 moisture begins to condense, in the form of water, on the substrate. Never apply a coating unless the concrete surface temperature is 5°F 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.

**PRIMER:** 1) The application of a primer is recommended to reduce concrete outgassing, in turn producing a smoother coating. 2) Armorgard 507 can be applied to prepared concrete without a primer. Apply with a squeegee and a medium (3/8" nap) roller.

**PRIMER MIXING:** To mix Copps K-049 concrete primer pour the contents of the can marked Hardener into the large pail (resin). Immediately mix for 3 minutes (or until uniform) using a Jiffy Mixer and a slow speed drill. Mix at slow speed (less than 500 rpm) to avoid air entrainment.

**PRIMER APPLICATION:** Apply 5 mil of Copps K-049 Concrete Primer to the prepared concrete with a short nap (1/4") roller. This insures adhesion to the concrete substrate.

DO NOT apply K-049 over standing water. Damp or dry concrete is acceptable.

**LIGHT "ROLLED" ARMORGARD 507 COAT FOR LIGHT DUTY - 10-30 mil liquids only.** Apply with a squeegee and a medium (3/8") nap roller.

**MEDIUM DUTY "BROADCAST" COATING - 30-60 mil:** Apply liquid 15-30 mil thick then evenly broadcast colored aggregate into the wet coating until it is saturated. Let cure (dry), then brush off the excess aggregate and apply a 5-10 mil liquids only topcoat to lock down the exposed aggregate. Repeat as needed to achieve your desired texture.

**Packaging:**

Armorgard 507 is conveniently packaged in pre-measured 1.5 or 4 gallon kits containing a resin (Part A) and a hardener (Part B). Larger bulk quantities are also available.

**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 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. Read and understand all cautions on can labels and safety data sheets before using this material.

**FOR INDUSTRIAL USE ONLY**

**WARRANTY AND DISCLAIMER**

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