



## Product Data Sheet

# Waterborne Epoxy - 5900 Series

### Product Description

The 5900 series is a high quality, low odor, very low VOC waterborne epoxy characterized by ease of use and water cleanup.

### Where to Use

This heavy-duty coating is designed primarily for concrete floors and walls. Application over other substrates is possible. Consult your Anchor representative for specific job recommendations.

### Product Characteristics

Color White (Custom colors available)

Gloss Gloss

Architectural and Industrial Maintenance Category Nonflat Interior/Exterior

Drying Time

Temperature	To Touch	To Recoat	Full Cure
75°F / 55% R.H.	2.5 Hours	3 Hours	7 Days

(Traffic: Overnight for light foot traffic, 24 hours before subjecting to heavy foot traffic or repositioning furniture.)

### Preparation & Priming

#### Surface Preparation

Do not apply any coating to a surface subject to hydrostatic pressure. Test for moisture vapor rising from under the concrete by taping 2' by 2' piece of plastic directly to the concrete and observing for moisture entrapment over a 24 hour period. If so observed, solve the moisture problem first. Do not apply over surfaces that have been treated with concrete sealer or water-proofer. Test the surface by applying a small drop of water onto the surface. If it beads up, the sealer must be removed. Do not apply over dirt, grime, oils, or other contaminants. Do not apply over loose or previously painted surfaces without repairing the surface and testing for proper adhesion. New concrete must be aged 28-38 days before coating. Clean thoroughly, then acid-etch with 3% muriatic acid solution. Thoroughly rinse and dry. You may need to check for neutral pH before continuing. Add 1-2 tablespoons baking soda to each gallon of rinse water to insure complete neutralization. The last rinse before painting should be clean water.

Primer Coats Masonry: Self-priming.

### Mixing & Application

Mixing/Mix Ratio Mix 4 parts of W/B Epoxy with 1 part #5906 W/B Epoxy Activator, by volume, before using. Pour Part B (#5906) into Part A and mix well for 1-2 minutes with power mixer until mixture is homogenous. In addition, allow 15-20 minutes induction time for maximum humidity and corrosion resistance.

Thinning Use water only but do not to exceed 10%

Surface Temperature Do not apply below 45°F or when temperature will drop below 45°F within 3-4 hrs after application. This product cures by a chemical reaction between the epoxy and the activator. The curing time is dependent on temperature and will not cure properly if the substrate temperature is below 45°F.

Recommended Thickness 4 mils dry per coat, not to exceed 8 mils dry

Theoretical Coverage 731 ft<sup>2</sup>/gallon at 1 mil dry, assuming no application losses. Coverage will vary depending on color, surface texture and application technique.

Coverage Rates per Coat	#	Dry Mils	Wet Mils	Ft <sup>2</sup> /gal
<u>Suggested</u>		4.0	8.8	183
<u>Minimum</u>		3.5	7.7	209
<u>Maximum</u>		4.5	9.9	162

Pot Life After #5906 is mixed into the epoxy, the mixture must be applied within 4 hours. This assumes the mixture is at 77°F. Pot life lengthens with cooler temperatures and shortens with warmer temperatures. The paint remains fluid after the pot life has expired, but if used, the dried coating will have low gloss and poor durability properties. Elevated temperatures will shorten pot life.

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**Mixing & Application Continued**

<u>Application Equipment</u>	<u>Airless Spray</u>	Pressure	1800-2400 psi
		Tip	0.013"-0.017"
	<u>Conventional Spray</u>	Air Pressure	75-100 psi
		Fluid Pressure	10-20 psi
	<u>Brush</u>	Recommended for small areas only. Use a high quality natural china bristle brush.	
	<u>Roller</u>	Preferable method for concrete floors. Use 3/8" or 1/2" synthetic nap covers.	

**Technical Information**

<u>Solids by Volume</u>	45.57% – when Mixed with Catalyst – Varies by Color
<u>AIM Category VOC Limit</u>	3.2 lb/gal (380 g/l)
<u>Coating VOC</u>	0.04 lb/gal (4.8 g/l) – Mixed – Minus Water and Exempt Materials – Varies by Color
<u>Material VOC</u>	0.09 lb/gal (10.8 g/l) – Mixed – Varies by Color
<u>Density</u>	10.9 lb/gal (1306 g/l) – Mixed – Varies by Color
<u>Packaging</u>	A one gallon kit consist of a 1 gallon container of waterborne epoxy 80% full and a 1 quart container of #5906 80% full. Mixing the #5906 into the epoxy container yields one mixed gallon. A five gallon kit consists of a 5 gallon container with four gallons of epoxy and a full 1 gallon container of #5906. Mixing the #5906 into the epoxy container yields five mixed gallons.
<u>Chemical Resistance</u>	Provides overall chemical resistance comparable to most solventborne epoxy systems; resists yellowing. Chemical, impact, and abrasion resistant.

**Clean-up & Storage**

<u>Cleanup</u>	Use soap and water	
<u>Storage Temperature</u>	Minimum 40°F	Maximum 105°F
<u>Shelf Life</u>	Under Normal Conditions (Unopened) – Two Years	

**Safety & Important Information**

WARNING! VAPOR HARMFUL. CONTAINS: PROPYLENE GLYCOL. Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea. Causes eye irritation. Harmful if swallowed. NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Keep away from heat, sparks and flame. Vapors may cause flash fire. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. **Use only with adequate ventilation.** Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. **KEEP OUT OF REACH OF CHILDREN.**

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead). WARNING! Sanding or scraping pressure treated lumber may be hazardous; wear appropriate protection.

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**LIMITED WARRANTY:** The technical data on this label or on other data is true and accurate to the best of our knowledge. We guarantee our products to conform to ANCHOR PAINT MFG. CO. quality control standards. Due to misuse in handling, storage, application and workmanship or variables such as weather or surface integrity that are beyond our control, Anchor Paint does not authorize any representative to make any warranty or merchantability of fitness of this product. Any liability whatsoever of Anchor Paint Mfg. Co. to the buyer or user of this product is limited to the purchaser's cost of the product itself.