

# Water Gard 300 TECHNICAL DATA

## Immersion Grade Cycloaliphatic Epoxy

**High Performance  
High Performance Epoxy Adduct  
Cycloaliphatic**

**Non Hazmat  
Damp or Wet Surface Application  
Fast Full Cure  
VOC Class: Mastic VOC - 0 g/l**

### STANDARD PRODUCT DESCRIPTION

Water Gard 300 is a two component blend of high performance epoxy resins and hardeners and offers a solvent free coating system with virtually no odor. This hard epoxy coating provides excellent chemical and abrasion resistance. Outstanding features include high film build in one coat application, 100% solids. This rigid epoxy is not recommended for surfaces that are subject to flexing.

### USES

Pool/Spa 'touch up' applications without draining the water  
Marine Barrier Coats  
Wastewater Treatment Applications  
Pulp and Paper Industry

### PHYSICAL PROPERTIES

TYPE ..... Modified Epoxy  
COMPONENTS ..... Two  
COLOR ..... White, baby blue (will yellow with exposure to UV rays)  
GLOSS ..... High  
VOLUME SOLIDS ..... 100%  
COVERAGE ..... 90-160 sq. ft./gallon  
SHELF LIFE ..... Unmixed components - one year  
MAX. REC. SERVICE TEMP. .... Dry air temp. 300°F (149°C) - without post curing  
Immersion: Deionized water 190°F (88°C)  
CATHODIC DISBONDMENT ..... 9.5 mm<sup>2</sup>  
MIX RATIO ..... 2:1 (Part A:Part B) by volume  
POT LIFE ..... 1 hour @ 77°F (25°C) for a 6 oz batch. Time will be extended at lower temperatures and shortened when higher. The larger the batch the shorter the pot life.  
METHOD OF APPLICATION ..... Brush, 1/4" Nap Phenolic Core Roller, Airless Spray  
REC. THICKNESS ..... Total application thickness may vary from 5 mils to 25 mils  
THINNER ..... If necessary - do not exceed 20% thinner by volume of mixed material  
CLEAN UP ..... Use Acetone or other Ketone solvent.

### DRYING TIME

These values are approximate and depend on several factors including coating thickness, amount of thinner used, and surface temperature. They are to be used as a guideline only, actual time may vary slightly.

TEMP (F)	POT LIFE (HOURS: MIN.)	CURE TIME (HOURS)	MINIMUM RECOAT TIME (HOURS)	MAXIMUM RECOAT TIME (DAYS)
50°	2:00	48	12	4
77°	1:00	12	6	4
90°	0:30	9	3	3

\*NOTE: Below 50°F/10°C cure is greatly retarded and film properties may be adversely affected.

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<b>PREPARATION</b>	<p>Surface must be clean of oils, grease, biological growth, loose rust and other loose contaminants.</p> <p>Concrete - Substrate to be coated should receive a sweep or brush blast cleaning (SSPC-SP7) to remove sharp edges, laitance or foreign matter and to provide an anchor pattern for adhesion. Abrasive blast media should be selected to product a rough texture similar to 80-100 grit sandpaper. A combination of 40/60 mesh size is recommended to avoid damage to sound substrate while still opening cavities or 'bugholes.' Nozzle pressure should be approx. 50-60 psig. Immediately prior to coating, the entire area should be cleaned and vacuumed free of all loose matter, blast media, dust or other contaminants. All standing water should be removed prior to coating; however concrete may be in a damp or moist condition and if necessary Water Guard 300 can be applied underwater to small areas.</p>
<b>APPLICATION</b>	<p>Best if not applied below 50°F (10°C) or if the dew point is within 5° of the temperature. All application and surface preparation should be consistent with good painting practices.</p> <p>This is a two component system. Thoroughly blend 2 parts base to 1 part curing agent using a power agitator for 3-5 minutes. To ensure complete mixing, scrape sides and bottom of containers. Incomplete mixing will result in soft spots or color variation. Begin application immediately after mixing.</p> <p>First Coat - Apply Water Gard 300 coating by epoxy roller, paint pad or brush. Allow this first coat to cure a minimum of 12 hours at 77°F before proceeding to optional second coat. If a second coat is applied care should be taken to avoid any contamination between coats. Allow to cure a minimum of 2 days before returning to severe chemical service. Airless application - see 45:1 ratio pump: .023" - .027" orifice tip; use 3/8" material hose unless more than 50 ft. is needed, then use 1/2" material hose.</p> <p>NOTE: Due to the thick nature of this solvent free coating, application (especially in cooler temperatures when the viscosity thickens more) can be simplified by transferring the coating to the application surface and spreading it out with a wide putty knife (or dry wall float, etc.). You can then smooth it out with a brush or roller.</p>
<b>LIMITATIONS</b>	<p>When applying Water Gard 300 in cooler temperatures (50°F - 60°F) and high humidity, it is necessary to watch for the formation of an amine blush. This blush may appear as a milky white residue on the surface of the cured coating, but will not effect the integrity of the film. However, blush must be removed by solvent wipe before the application of another coat or an intercoat adhesion problem will occur.</p> <p>'Gritty' lumps in the part A are signs of common epoxy crystallization. Warming the part A epoxy for several hours at approx. 100° F will dissolve the lumps and return it to a creamy consistency.</p>
<b>STORAGE</b>	Store closed containers in cool, dry area
<b>TRANSPORT</b>	Not Regulated by DOT

**SAFETY:** This is a hazardous material if misused. Read and understand the Material Safety Data Sheet (MSDS) before use.

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