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^2
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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PREPARATION	Surface must be clean of oils, grease, biological growth, loose rust and other loose contaminants. 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.
APPLICATION	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. 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. 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. 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 transfering 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.
LIMITATIONS	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. '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.
STORAGE	Store closed containers in cool, dry area
TRANSPORT	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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Manufactured by:
NSP in NC

Distributed by:
Progressive Epoxy Polymers, Inc.
48 Wildwood Dr.
Pittsfield, NH 03263-3406

Tel: 603-435-7199
Fax: 603-435-7182
www.epoxyproducts.com
info@epoxyproducts.com