

Aquations



High Performance Waterborne 2-Part Gloss Epoxy

Gloss Finish* • 5270

Product Description

High performance two component, waterborne, low odor, polyamide epoxy formulated to provide a durable, highly cleanable, chemical and solvent resistant coating in industrial and commercial environments: restrooms, locker rooms, restaurants, schools, hospitals, factories and food processing facilities. * **Special order only, Interior use only**

Recommended Substrates

- Concrete and concrete block
- Poured and precast concrete
- Primed metals
- Wood and plywood

Product Features

- Low odor
- Excellent scrub resistance
- Corrosion, chemical & solvent resistant
- Impact & abrasion resistant
- Soap and water clean up
- Self-priming on wood & concrete

Product Limitations

This product is for use on properly above grade vertical substrates. May yellow over time and if exposed to prolonged exposure to fossil fuel burning fumes. Not recommended for exterior use; as accelerated chalking and fading will occur. Do not apply if air, product & substrate temperature is <55 or >100° F. Expect longer dry times at lower temperatures & higher relative humidity.

Application: Brush, roller, airless or conventional spray
Flash Point: >200°F Non-Flammable
Clean Up: Soap and water
Available bases | 5270: WB | DB | AB

Compliance

This product is VOC compliant based on limits provided by EPA, MPI GPS-1, LEEDv4, and OTC Phase 1.

Product Data

Product Type: **Waterborne Polyamide Epoxy**

Gloss @60°: **5270**
90

Wt Solids ±2%: 51%
 Vol Solids ±2%: 38%
 Wet Film Mils: 6.4 - 8.0
 Dry Film Mils: 2.4 - 3.0
 Coverage / Gal * 200 - 250

* coverage and wet and dry millage will vary by substrate type and porosity.

VOC gms p/L*: <150

**less exempt solvents and before the addition of colorant

Viscosity KU ±5: 95
 Dry time @ 50% RH***:
 4-6 HRS to touch
 12-16 HRS to recoat
 7 Days full cure

***dry times, pot life & recoat times listed may vary according to the relative humidity, temperature, film build, color and air movement of the application environment

Induction Time 10-15 Min @ 77°F & 50% Relative Humidity
 Pot Life 2 - 4 HRS @ 77°F & 50% Relative Humidity
 Recoat Window 24-36 HRS****

**** >36 hours, product must be scuff sanded with 220 grit sandpaper before re-coating

Shelf Life One (1) Year unopened

PERFORMANCE TESTING DATA

PERFORMANCE TEST	TEST METHOD	RESULTS
Abrasion Resistance	ASTM D2486, CS-17, 1000 cycles	28 mg loss
Adhesion	ASTM D4541	405 psi, 100% concrete failure
Flexibility	ASTM D522, 180° bend, 1/4" mandrel	Pass
Scrub Resistance	ASTM D2486	Pass - Excellent

Chemical Resistance Chart

Y = Resistant N = Not Recommended S = Splash / Spillage

Animal Urine	Y	Calcium Chloride	Y	Gasoline	Y	Sodium Hydroxide 50%	Y
Antifreeze	Y	Cooking Oil	Y	Isopropyl Alcohol	Y	TriSodium Phosphate	Y
Bleach	Y	De-icing Salts	Y	Motor Oil	Y	Windshield Wiper Fluid	Y
Brake Fluid	S*	Detergents	Y	Mustard	S*		

*Will stain unless promptly removed



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General Surface Preparation:

All surfaces must be sound, dry, clean and free of oil, grease, dirt, mildew, mil scale, form release agents, curing compounds, loose and flaking paint, rust, efflorescence and any other surface contaminants. If top-coating approved epoxy basecoat, follow surface preparation guidelines and recoat window time frames per the product data sheet.

Mildew/Algae: Surface areas affected by mildew or algae should be washed with a commercial cleaner, carefully following manufacturer's application and safety directions. Rinse thoroughly with clean water, and allow a minimum of 24 hours to dry thoroughly.

Surface Preparation:

Concrete & Masonry: All new masonry surfaces must be allowed to dry/cure a minimum of 30 days before painting. Acid etch or abrade all slick, glazed concrete or concrete with laitance to a minimum of CSP of 1-2. CMU and concrete with a deeper profile will require additional coats and/or film build.

New Metals: Clean substrate and prepare surface in accordance with approved corrosion resistant primer.

Previously Painted Surfaces: Remove any loose scale, chalked, cracked or peeling paint from previously painted surfaces with a minimum of SSPC-SP3, or as required by the specification. Previously painted surfaces that are in poor condition should be completely removed to reveal a more compatible surface for paint application. Sand smooth all rough paint edges to the adjacent surface area, and abrade all glossy surfaces to effectively dull the existing sheen levels. Repair/replace any damaged, deteriorated, and surface imperfections with the proper patching compounds or building materials. Prime all bare, new, chalked, and repaired surfaces with the properly specified primer.

Wood: All wood surfaces should be sanded smooth to remove any blemishes or imperfections and then wiped clean to remove any dust prior to priming. After priming lightly sand and wipe clean to achieve the best finish.

Drywall: Nails or screws should be countersunk, and they along with any indentations should be mudded flush with the surface, sanded smooth and cleaned to remove any dust prior to priming.

Surface Condition	Surface Preparation Standards				APPLICATION EQUIPMENT	
	Method	SSPC	NACE	Mil Profile		
Grease, Oil, Grime, Etc	Solvent Cleaning	SP1	N/A	N/A	• Brush Application: Apply using quality nylon, polyester or combination nylon/polyester brush.	
Light Rust	Hand Tool Cleaning	SP2	N/A	<1	• Roller Application: Apply using a smooth: 3/8" - 3/4" shed resistant roller cover, depending on texture or surface porosity.	
Moderate to Heavy Rust	Power Tool Cleaning	SP3	N/A	<1	• Spray Application:	
Heavy Rust, Failed Coating	Power Tool to Bare Metal	SP11	N/A	1-2	Pump: Gas or Electric Airless Sprayer	Tip: 0.015 - 0.017 Reversible
Heavy Rust, Failed Coating	Commercial Blast	SP6	3	1-6	Pressure: Minimum 2000 PSI	Hose: 1/4 inch (6.3 mm) - 3/8 inch (10 mm)

Directions for Use: Mixing Instructions: Aquations High Performance Waterborne Epoxy is formulated as a 3 to 1 ratio mix by volume, example - one (1) short filled gallon of part A mixed with one (1) quart of part B. Stir Part A component thoroughly with a paint paddle in a spiral up and down motion or with an electric mixer at slow speed. Add Part B component and mix thoroughly. Allow 10-15 minutes induction Period! Mixed material has a 2-4 hour pot life after combining, and should be applied during this time period.

Neither Component Will Work Unless Mixed With The Other! Do not re-use containers that have been converted or mix with previously catalyzed material.

Application: Consult application equipment chart below. Apply when surface, product and ambient temperatures are above 55° F and below 100° F; and relative humidity is <85%. Avoid paint application when weather conditions are threatening, and late in the day when there is a threat of moisture condensing on wet paint. To assure color uniformity always intermix multiple containers of custom tinted and stock colors. Apply a small test sample to verify color. Always paint to a natural break in the surface, such as a corner or edge. When applying by brush, apply a smooth and generous coat on smaller surface areas, such as cutting-in larger surfaces and painting edges or corners. When applying by roller cover, apply an even and generous coat in a "W" or crisscross motion, avoiding any excessive respreading or reworking. During spray application, use a 50% overlap to avoid pinholes, holidays and voids. If necessary, apply again at a right angle. Maintain a wet edge during application by brushing, rolling or spraying into previously applied coating area.

Clean Up: Minor spills, painting tools and spray equipment should be immediately with warm soapy water. More serious spills should be contained and removed with inert absorbent material. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. DO NOT THIN: Stir thoroughly and apply as it comes from the container. Thinning is not necessary.

SAFETY:

CAUTION: Avoid prolonged contact with skin, and breathing of dust, vapors and/or spray mists. Causes eye irritation. USE WITH ADEQUATE VENTILATION! Ensure fresh air entry during application and drying. If you experience eye water, headache or dizziness, or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriately fitted respirator, (NIOSH approved), during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes, skin and clothing. Use chemical safety glasses, goggles or a face shield for proper eye protection. Wash thoroughly after handling and before eating or smoking. Close container after each use. **DO NOT TAKE INTERNALLY!**

WARNING! If you scrape, sand, or remove old paint, you may release lead dust or fumes. LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a properly fitted NIOSH-approved respirator and prevent skin contact 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 USEPA National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

DO NOT TAKE INTERNALLY! FIRST AID: In case of skin contact, wash thoroughly with appropriate cleaning solvent followed by plenty of warm soapy water. For eye contact, flush with plenty of water for 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION! If affected by inhalation, move immediately to fresh air. If swallowed, DO NOT INDUCE VOMITING, SEEK IMMEDIATE MEDICAL ATTENTION!

Storage and Disposal

Product should be kept from freezing temperatures or temperatures above 95°F. Refer to your local city or county government for instructions on disposal options.

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PDS 5270 2007



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