

980-SERIES AQUA BORNE WATER BORNE EPOXY

DESCRIPTION: Two component, Modified Aliphatic Amine Coating that is a catalyzed Water Borne Epoxy designed for heavy-duty performance equaling that of conventional solvent-based epoxies.

This product features very low odor during application with no residual odor when dry. It is non-flammable and dries to a tile-like, high-gloss finish with exceptional abrasion resistance. The finish is resistant to graffiti, stains such as food, crayon, lipstick, ink, etc. as well as to most chemicals, oil and solvents known to attack conventional water-base acrylic epoxies.

COLORS: White, gray and bases. Can be tinted to any color using universal colorants.

USES: Designed for renovation and new construction in institutional and commercial facilities without necessitating facility shutdown. Provides maximum protection and service life in high traffic areas. Recommended for use on all new or previously painted surfaces including concrete blocks, masonry, drywall, plaster, ceramic tile and properly primed metals.

Recommended facilities include schools, health care institutions, commercial kitchens, restaurants, bakeries, food and beverage facilities, laboratories, chemical plants and other factories. Also great for floor use in basements and factories. **NOTE: NOT FOR USE ON WOODEN FLOORS OR UNDERWATER APPLICATIONS.**

SURFACE PREPARATION: Thoroughly clean new and previously painted surfaces to remove dirt, oil, grease, wax, loose paint, rust, efflorescence, chalk and other contaminants that could interfere with adhesion. Clean failed areas on previously coated surfaces by hand or using a power tool (SSPC-SP-2 or SP-3) and spot prime. Galvanized steel and non-ferrous metal should receive solvent cleaning (SSPC-SP1). Glossy enamels must be dulled by sanding before topcoating with Water Borne Epoxy.

BARE CONCRETE: Allow new poured concrete floors to cure for a minimum of 60 days. All poured or precast concrete surfaces must be acid etched prior to painting. Wear protective clothing, gloves and goggles during etching process. Follow label directions on the container. Rinse the surface thoroughly then neutralize the treated surface with a solution containing ½ pint of household ammonia to a gallon of water. Use a power or pressure washer for a final rinse and wet vacuum the surface to remove the residue left behind from the etching process. Allow the surface to dry thoroughly for 48 hours. Sweep the floor using a stiff bristle broom or a vacuum cleaner to remove remaining residue. For maximum resistance to hot tire pick up, repeat the etching process again over the areas where tires come to rest on the floor. A properly etched surface should look and feel like fine sandpaper. If the surface does not have a proper texture, repeat the etching process.

APPLICATION: Brush, roller or spray

Conventional Spray Gun	Binks #18 or #62	Devilbiss JGA 502 or MBC-510	Graco 800 or 900
Fluid Nozzle	66 or 67	E or D	047 or 086
Air Cap	66PE or 67PB	704, 765 or 78	047 or 952

Airless Spray Pump	23:1 Monarch or 30.1 Bulldog (Graco)
High Pressure Filter	60 Mesh
Fluid Hose	1/4" x 50' or 3/8" x 100'
Airless Gun	208-663 Graco
Tips	.015 or .019 Reverse-a-Clean
Minimum Pressure	2000 PSI

NOTE: KEEP FROM FREEZING. Do not apply when air or surface temperature is below 55°F or above 100°F. Relative humidity should be below 90%.

CLEAN-UP: Soap and warm water.

FORMULATION: Part A

Aliphatic Amine Aqueous Solution
Ethylene Glycol Monobutyl Ether
Titanium Dioxide
Defoamer
Water

Part B

Water Dispersible Epoxy Resin
Ethylene Glycol Epoxy Resin
Water

USDA: Will pass the requirements of USDA for incidental food contact in meat and poultry processing plants.

PACKAGING: Two component system available in gallon and five gallon kits. Mix ratio is 3:1 (A:B).

Component A	Component B	Mixed Volume
Short filled Gallon (3 qts)	Full quart	1 gallon
Short filled 5/gallon (3 gal)	Full gallon	4 gallons

DISPOSAL: Save for local community waste paint collection. Follow local community waste disposal guidelines. Empty containers may be recycled by your local community recycling program.

CAUTION: Contains Petroleum Distillates. Avoid prolonged breathing of vapors or spray mist. Wear gloves, safety goggles and respiratory protection (NIOSH/MSHA TC23C or equivalent). Avoid contact with eyes and skin. Wash hands after using. Close container after each use. **FIRST AID:** If swallowed, do not induce vomiting, call physician, Hospital Emergency Room or Poison Control Center. **PROTECT FROM FREEZING:** Use only with adequate ventilation. **DO NOT TAKE INTERNALLY.**

KEEP OUT OF REACH OF CHILDREN.

PHYSICAL PROPERTIES:

Product Type:	Epoxy/Aliphatic Amine Adduct
Weight/Gal (Catalyzed):	9.6 - 10.9 lbs/gal
Activated Viscosity:	90-100 KU
60° Gloss:	90+
20° Gloss:	80+
Dry to Touch:	4-6 hrs (@ 77°F & 50% RH)
Tack Free:	8-10 hrs (@ 77°F & 50% RH)

Dry Hard:	Overnight
Full Cure:	4-7 days
Recoat:	Between 8 hrs and 48 hours after 1st application, 2nd coat may be applied without sanding. Must be sanded lightly if allowed to dry longer than 48 hours between coats.
Mix Ratio:	3 to 1 (Part A:B) by volume
Induction Time:	20 - 30 minutes after mixing
Pot Life (Catalyzed):	4 hrs (@ 77°F & 50% RH)
Shelf Life (Unopened)	18 Months minimum
Reducer/Cleaner:	Water
Weight Solids (Catalyzed):	48.4 - 56.1%
Volume Solids (Catalyzed):	42.6 - 43.8%
VOC (Before Colorants):	165g/Ltr. Maximum
Flash Point:	N/A
Tinting:	Add colorants to Component A then put on shaker for mixing. Component B should be added just before using and stirred well by hand or mechanical hand mixer. DO NOT MIX COMPONENT B ON A SHAKER.
Coverage:	300-350 sq.ft/gal. over smooth surfaces. Coverage will be reduced over rough and porous surfaces.
Recommended Dry Film:	2.0 mils per coat
Wet Film:	5.0 mils per coat

PERFORMANCE PROPERTIES:

Flow & Leveling:	Excellent
Sag Resistance:	8-9
Defoaming (Brush/Roll):	Excellent, no air entrapment
Color Acceptance:	Excellent, no rub up
Freeze Thaw (ASTM D2243):	Component A passes 3 cycles Component B passes 3 cycles
Taber Wear Index:	80-120
Pencil Hardness (ASTM D3363):	4H+
Sward Hardness (ASTM D2134):	60
Cleveland Humidity resistance:	100 hrs. No effect
Salt Spray Resistance:	100 hrs. Very fine blisters 1/16" Creep
Direct Impact:	14-25"/ 2 lbs. weight
Reverse Impact:	14-25"/ 2 lbs. weight

CROSS HATCH ADHESION (ASTM D3357)

Galvanized Metal:	5B
Cold Rolled Steel:	5B
Aluminum:	5B
Coil Coated Aluminum:	5B
Wood:	5B
Concrete:	5B

CHEMICAL RESISTANCE (ASTM D1308)**(SPOT TESTED UNCOVERED FOR 1 HOUR)**

MEK Double Rubs	100+
Acetone:	No effect
Xylene:	No effect
Toluene:	No effect
Mineral Spirits	No effect
Denatured Alcohol	No effect
Methanol	No effect
Isopropyl Alcohol	No effect
5% Sodium Hypochlorite	No effect
5% Glacial Acetic Acid	No effect
10% Sodium Hydroxide	No effect
10% Hydrochloric Acid	No effect
10% Sulfuric Acid	No effect
10% Nitric Acid	Very slight stain
10% Phosphoric Acid	No effect
Gasoline	No effect
Motor Oil	No effect
Brake Fluid	Slightly tacky
Transmission Oil	No effect
Distilled Water	No effect
Ammonia	No effect

GRAFFITI RESISTANCE:**(CLEANED OFF WITH ZEP®Write Away, Ink and GRAFFITI REMOVER)**

Black Magic Marker	No effect
Brown Magic Marker	No effect
Yellow Magic Marker	No effect
Black Felt Tip Pen	Slight stain
Red Felt Tip Pen	Stain
Blue Ball Point Pen	Slight Stain
Pencil	No effect
Lipstick	No effect
Crayon	No effect
Vinegar	No effect
Butter	No effect
Mustard	Slight Stain
Ketchup	No effect
Coffee	No effect
Fruit Juices	No effect