

EPOXYGUARD[®] 200



2-Part, Waterborne Epoxy / Acrylic Industrial Maintenance Coating

MADE IN U.S.A.

PRODUCT DESCRIPTION:

EPOXYGUARD 200 is a low odor and ultra-low VOC, high performance, two-component waterborne epoxy acrylic industrial maintenance coating. It is formulated to have outstanding adhesion, flexibility and resistance to chemicals, water and abrasions.

BASIC USES:

EPOXYGUARD 200 provides a stain-resistant, scrub resistant, washable finish that retains its attractive appearance and longevity far longer than solvent based epoxies or traditional alkyd coatings. **EPOXYGUARD 200** can be applied on concrete and masonry, prepared metal, wood, previously painted surfaces, drywall in high traffic public, educational and healthcare facilities. Also applicable for manufacturing and warehousing operations, and automotive repair environments.

TYPICAL USES:

- Walls & Floors
- Storage Areas
- Structural Steel
- Marine Application
- Schools
- Food Processing Plants
- Laboratories
- Tank Exteriors
- Manufacturing Plants
- Equipment
- Institutional Maintenance
- Hospitals
- Kitchens
- Mass Transit Centers

FEATURES:

- Anti-Microbial
- Outstanding Color & Gloss Retention
- Semi Gloss, Low Gloss, Eggshell
- Dries Quickly
- Interior/Exterior
- Brush, Roll or Spray
- Great Chemical, UV and Hot Tire Resistance
- Very Low Odor
- U.S.D.A. Acceptable
- Extremely Durable
- Choice of Colors
- Self-Priming
- Scrub Resistant

*Antimicrobial properties built in to protect Epoxyguard 200 provides mold and mildew-resistance to the dried film.

*Epoxyguard 200 conforms to the USDA-FSIS regulatory sanitation performance standards for coatings in contact with food establishment facilities.

Product Qualifications	
Cal Green	Yes
OTC (Industrial Maintenance)	Yes
SCAQMD (Industrial Maintenance)	Yes
CARB (Industrial Maintenance)	Yes
LEED (New Construction)	Yes
LEED (New Schools / CHPS)	Yes

PACKAGING & TINTING: 7:1 Mixing Volume Ratio

CB: One-Gallon Kit: Part A: 104 Oz.; Part B: 16 Oz.
 CB: Five-Gallon Kit: Part A: 520 Oz.; Part B: 80 Oz.

Clear Base, Semi-Gloss: 8900 - Part A Short Fill: 8 Oz.
 Clear Base, Low-Gloss: 9000 - Part A Short Fill: 8 Oz.

WB: One-Gallon Kit: Part A: 110 Oz.; Part B: 16 Oz.
 WB: Five-Gallon Kit: Part A: 550 Oz.; Part B: 80 Oz.

White Base, Semi-Gloss: 8950 - Part A Short fill: 2 Oz.
 White Base, Low-Gloss: 9050 - Part A Short fill: 2 Oz.
 White Base, Eggshell: 8850 - Part A Short fill: 2 Oz.

EPOXYGUARD 200 Part B cannot be tinted; only tint Part A.

TECHNICAL DATA:

<i>Epoxyguard 200 Clear Base-</i>	
Solids by Weight (ASTM D2369).....	37-38%
Solids by Volume (ASTM D2697).....	35%
Viscosity.....	93 kus
<i>Epoxyguard 200 White Base-</i>	
Solids by Weight (ASTM D2369).....	43-44%
Solids by Volume (ASTM D2697).....	31%
Viscosity.....	95 kus
Finish (based on MPI Gloss Levels) @60°.....	
.....Semi-Gloss: 35-70°, Low-Gloss: 25-35°, Eggshell: 10-25°	
Components.....	2 (7:1 ratio)
Weight per 1-gallon Can.....	11.2 Lbs
Weight per 5-gallon Pail.....	51.0 Lbs
VOC Level.....	<100 g/L
Mixing Ratio by Volume.....	7 Parts Resin to 1 Part Cure
Pot Life...70°F to 90°F (4-8 Hours).....	50°F (12-16 Hours)
Induction Time.....70°F to 90°F (5 Minutes).....	50°F (10 Minutes)

SUGGESTED PRIMERS:

Use **AQUAPRIME** for drywall, plaster, wood, & concrete.
Item No. 5900 - **AQUAPRIME** Multi-Surface Primer

Use **MONOCHEM 1** for metal surfaces.
Item No. 1100/1150 - **MONOCHEM 1** 100% Epoxy Primer

Use **MONOCHEM 21** for surfaces coated with oil base coatings
Item No. 2121 - **MONOCHEM 21** 100% Solids Epoxy Primer

SURFACE PREPARATION:

The successful performance of any coating depends on the thoroughness of the surface preparation. The surface must be dry (wood < 13% moisture; cement < 15% moisture; drywall < 8% moisture) and clean, free from all adhesion-affecting contaminants like dirt, dust, oil, grease, wax, loose materials, etc. Fill all voids, cracks, joints, bee holes, etc large than 1/16" with paintable elastomeric caulk.

COMPATIBILITY:

Always apply a test patch to check coverage, adhesion, compatibility and for desired results. Responsibility for determining the adhesion and coverage of **EPOXYGUARD 200** to an existing finish rests with the applicator. Application of **EPOXYGUARD 200** over existing and poorly adhering painted surfaces may result in delamination.

EPOXYGUARD 200 may be applied over most existing coatings. Roughen the surface with light abrasive blasting or sanding or refer to our recommended primers.

Drywall: Tape all joints, fill cracks and nail holes with patching paste or spackle; sand smooth. Remove all dust. Unsealed surfaces will require a PVA primer prior to application of two coats of **EPOXYGUARD 200**.

Concrete And Masonry: Must be cured at least 28 days. Level protrusions and repair cavities, holes, voids and cracks larger than 1/16". Dense, non-porous concrete should be primed with **MONOCHEM 21** or grinded, sandblasted, abrasive blasted (ASTM D4259) or acid etched (ASTM D4260).

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MAINTENANCE COATING 09990
PROTECTIVE COATINGS

MONOPOLE INC.
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Manufacturer of
U.S. SPECIALTY COATINGS

4661 Alger Street • Los Angeles, CA 90039

Tel: 818-500-8585 • Fax: 818-502-0818

www.monopoleinc.com • Email: info@monopoleinc.com

Wood: All wood surfaces should be sanded to a rough finish to provide a good bond between the substrate and **EPOXYGUARD 200**. Seal all weather exposed sides (areas between the planks and underside if applicable) of the wood to prevent moisture penetration. The moisture content must be 13% or lower prior to application. • NOTE: Woods containing tannin acid (pine, cedar, redwood) require a premium grade stain blocker/primer to stop the bleeding prior to application. **EPOXYGUARD 200** will not control tannin acid bleeding from wood.

Aged Coating: All surfaces must be clean, dry, tightly bonded and free of all loose paint, corrosion or chalky residue. Clean by pressure water blast (1000 psi or greater), SSPC-SP1, SSPC-SP3 or SSPC-SP7. Prime with **MONOCHEM 21** if adhesion is an issue. **MONOCHEM 21** is also required over non water base, glossy or rubberized coatings.

UNPAINTED METAL SURFACES:

All rust and contaminants must be removed by lightly blasting with fine abrasives or by conducting a light etching with **MONOCHEM METAL ETCH**. To minimize rust formation in areas where rust has previously formed, we require applying a rust inhibitive metal primer within 6 hours after preparing the surface.

Non Corrosive: Galvanized, Aluminum, Stainless Steel: Remove all oils or films with a neutral detergent or emulsion cleaner. Lightly blast with fine abrasives or conduct a light etching. Then rinse using a Zinc treatment.

Corrosive Metals: Remove all the loose rust, dirt, grease or other contaminants by one of the following depending on the degree of cleanliness required. Blast SSPC-SP3; SSPC-SP2; SSPC-SP6; SSPC-SP7. Blast lightly with fine abrasives or conduct a light etching. Then rinse using a Zinc treatment and prime with a rust inhibitive primer.

COVERAGE RATES: (2 Coats Required)

Smooth Surfaces: 200-250 sq. Ft. Per gallon (Yield: 2-2.5 Dry Mils)
Textured Surfaces: 150 -200 sq. Ft. Per gallon (Yield: 2.5-3 Dry Mils)

APPLICATION EQUIPMENT:

Airless Spray: Standard 30:1 airless pump or equivalent with a 0.07 inch fluid tip.

Brush: Natural bristle. Maintain a wet edge.

Roller: Industrial solvent resistant roller. Level any air bubbles with bristle brush.

APPLICATION and MIXING:

1. Stir resin using power mixer to disperse pigments.
2. Add the Part B hardener to Part A resin. Mix thoroughly with a mechanical mixer for 3-4 minutes or a stir stick for 5 minutes. Then allow 5 minutes of induction time before application to ensure the proper film build and appearance.
3. Do not mix more material than will be used within pot life. Pot life is 4-8 hours (70-90°F). Do not apply the mixed product until the induction time has been reached or the standard gloss level of the product may be affected.
4. Apply parallel passes. Overlap each pass 50% to avoid bare areas and pinholes. If required, cross spray at right angles.

The air and surface temperature must be between 50° F - 90° F. Surface temperatures must be at least 5°F. above dew point to prevent condensation.

DRY TIMES:

Recoat: 30 Minutes - 1 Hour
Light Foot Traffic: 1 Day
Normal Foot Traffic: 2 Days
Full Use & Hot Tire Resistant: 5 Days

CHEMICAL RESISTANCE (ASTM D1308) (Splash or Spillage)

Petroleum Products.....	Excellent
Fresh Water.....	Excellent
Sea Water	Excellent
Salt Solutions (Acidic, Neutral or Alkaline)	Excellent
Stain Removal (Mustard, Coffee, Red Ink, Cola, Grape Juice).....	Excellent
Steam Resistance (15 Minutes Exposure).....	Excellent
Solvent Resistance (MEK Rubs to Remove)	>300
Acid Resistance (24 Hours Immersion, on Concrete)	
HCL and NaOH	No Effect
Hot Tire Pick-Up Resistance (3-Day RT Dry, Lifting @140°F)	Passes

EPOXYGUARD 200 is not recommended for continuous immersion service.

TYPICAL PERFORMANCE

Abrasion Resistance (ASTM D4060) CS17, 1000 Cycles, 1 KG..110 MG Lost	
Impact (ASTM G14)	15 Inch/Lbs
Pencil Hardness (ASTM D-3363).....	3H
Scrub Resistance (ASTM D-2486)	2,000 + cycles
Flexibility (ASTM D522).....	.45%
Moisture Vapor Transmission (ASTM D1653)	(.52)
Weatherability (QUV Exposure)	
Chalk Resistance (1 Year).....	Excellent
Gloss Retention (1 Year)	Excellent
Salt Spray (ASTM B117), 1000 Hrs	Pass
Humidity/Condensation (ASTM D4588), 100 Hrs,	
Freeze/Thaw (ASTM D2243), 5 Cycles	Pass

Drying Time (ASTM D1640)

@ 2 mils DFT- Maximum RH 50%; 70°F-90°F

Dry to Touch: 20-30 Minutes

Recoat Time: 1.5 Hours

Through: 1½ to 6 ½ Hours

Full Cure: 3-7 Days

CAUTION:

EPOXYGUARD 200 may create a slippery surface when used over horizontal areas and exposed to water, oil, grease or any liquid. For this reason we always recommend the use of aggregates in these types of environments to avoid "slippery when wet" scenarios. Monopole Inc. will not be responsible for injury caused in a slip or fall situation. It is the end users responsibility to determine the suitability and safety of our coatings for their particular use and application.

CLEAN UP:

Clean tools and equipment with soap and water immediately after use. Dried material will require a legally compliant strong solvent, paint thinner or stripper.

SHELF LIFE:

EPOXYGUARD 200 is useable for a 12-month period stored at room temperature (72°F) in a sealed container.

WARRANTY INFORMATION:

Monopole, Inc. believes that the information in this publication is an accurate description of the typical characteristics and/or uses of the product or products. But it is the end users responsibility to thoroughly test the product in the specific application to determine its performance efficacy and safety. Since use of this product is beyond our control, Monopole, Inc. cannot assume any risk or liability for results obtained when not used according to our specifications and directions. Unless Monopole, Inc. provides a specific written statement of fitness for a particular use, Monopole's sole warranty is that the product will meet its current sales specifications. Monopole, Inc. specifically disclaims any other expressed or implied warranty, including the warranty of merchantability and fitness for use. The exclusive remedy and Monopole's sole liability for breach of warranty is limited to a refund of the purchase price or replacement of product proven to be defective. In no event shall the seller be liable for any loss of profits or other consequential damages. Under no circumstance will Monopole, Inc. pay labor charges.