



# EPOXYGUARD 100



**MONOPOLE INC.**  
Manufacturer of  
U.S. SPECIALTY COATINGS

**EPOXYGUARD 100** is a one component epoxy fortified acrylic blend, formulated to create a very tough and durable finish for all interior/exterior floor surfaces. **EPOXYGUARD 100** displays high resistance to scuffing, peeling, and fading. **EPOXYGUARD 100** is also highly resistant to UV rays, scuffing, water and mildew.

### TYPICAL USES:

- Floors
- Storage Areas
- Walkways
- Porches & Patios

### ADVANTAGES:

- Interior/Exterior
- Extremely Durable
- Environmentally Friendly
- Universally Compliant

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:

**EPOXYGUARD 100** is available in one-gallon cans or five-gallon pails, in neutral and white base and can be tinted to any color using universal water base colorants.

Neutral Base: Short-Fill 12 ounces per gallon.

White Base: Short-Fill 2 ounces per gallon.

4400: Epoxyguard 100 Neutral Base

4450: Epoxyguard 100 White Base

### PREPARATION:

The surface must be dry and clean, free from all adhesion affecting contaminants like dirt, dust, oil, grease, wax, loose materials, etc.

**CONCRETE AND MASONRY:** Must be cured at least 28 days. Level protrusions and repair cavities, voids and cracks. Dense, non-porous concrete should be mechanically abraded or primed with **MONOBOND**.

### PREVIOUSLY PAINTED CONCRETE SURFACES:

**Latex Based Paint:** Remove all loose, peeling or poorly bonded paint. Surfaces must be mechanically cleaned and abraded, using 60-80 grit sandpaper. Dull glossy surfaces by sanding. Clean surface by scrub washing with a solution of 1/2 cup TSP to one gallon of warm water. Pay special attention to areas where build-up of dirt, grease and oil exist. These areas should be scrubbed clean. Allow moisture to escape for 48 hours prior to painting or when the dry surface exhibits 15% or less moisture.

**Oil Based Paint:** Remove all chlorinated rubber and solvent based finishes by sandblasting or prime with **MONOCHEM 21**.

### PHYSICAL PROPERTIES

**Composition:** Water Base Epoxy-Acrylic Hybrid

**VOC:** < 9 g/L

**White Base Weight Solids:** 41% ±2

**White Base Volume Solids:** 31%

**Neutral Base Weight Solids:** 33% ±2

**Neutral Base Volume Solids:** 29%

**Weight per Gallon:** Clear: 9 Lbs, White Base: 10 Lbs

**Finish:** Satin (25-30°)

**Viscosity:** 95-105 Kus

**Coverage:** 225-375 Sq. Ft per Gallon

Recommended Dry Mills: 1.5 - 2.5

Recommended Wet Mills: 3 - 7

Two Coats Required

Always apply a test patch to check for adhesion, compatibility and proper results.

**Drying Time @77° and 50% Relative Humidity:**

Surface Dry: 1-2 Hours

Recoat Time: 2-4 Hours

Cooler Temperature, higher humidity and film thickness will require longer drying time.

**Shelf Life:** 2 Years

### WOOD SURFACES:

- Wood surfaces should be sanded to a rough finish to provide "tooth" for the coating.
- Wood decks or dimensional lumber built with gaps between planks should be taped and caulked. This protects against water penetrating behind the coating, which creates hydrostatic pressure.
- We recommend sealing all sides of the wood to prevent moisture penetration.
- The moisture content of the wood must be 13% or lower.
- **EPOXYGUARD 100** will not stop tannin acid bleeding from wood. Tannin acid is commonly found in pine, redwood, and cedar. For application over woods that contain tannin acid, we require applying a stain blocker/primer before applying **EPOXYGUARD 100**.

### UNPAINTED METAL SURFACES:

All rust and contaminants must be removed by lightly blasting with fine abrasives or by conducting a light etching. To minimize rust formation in areas where rust has previously formed, we require applying a rust inhibitive metal primer, like **MONOBOND RI**, within 4-6 hours after preparing the surface.

**Galvanized, Aluminum, Stainless Steel:** Remove all oils or films with a neutral detergent or emulsion cleaner. Blast lightly with fine abrasives or conduct a light etching. Then prime with a rust inhibitive primer, like **MONOBOND RI**, within 4-6 hours to avoid rust oxidation.

**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 prime with a rust inhibitive primer, like **MONOBOND RI**, within 4-6 hours to avoid rust oxidation.

**APPLICATION:**

Apply only when the surface temperature and surrounding air is between 50°F to 90°F. Use a ½” nap roller for rough or textured surfaces, a 3/8” nap roller for broomed-finish surfaces, and a ¼” nap roller for smooth-troweled surfaces.

**EPOXYGUARD 100** can also be applied using a nylon-polyester brush or spray equipment. Thinning slightly with water will help avoid streaks in direct sun (one pint of water per gallon). Apply two coats and allow two to four hours between coats.

**DRY TIME:**

The dry times below are approximations and may vary due to temperature and humidity levels.

- Tack Free: 1-2 hours
- Recoat: 2-4 hours (2 coats required)
- Light Foot Traffic: 8 hours
- Full Foot Traffic: 24 hours
- Allow a 7 day cure before washing the surface

NOTE: For increased durability of **EPOXYGUARD 100** it is important to avoid creating long term puddling water on the coated surface. This can prematurely damage the coating.

**LIMITATIONS:**

**EPOXYGUARD 100** will not form a water-proofing membrane and does not seal inaccessible areas. It will not bridge cracks, fill large pores or compensate for flawed construction. Exposed walls must be capped and the backside of parapet walls must be sealed, flashings must be in place and weep holes and drains installed and functioning (where applicable).

**WHEN NOT TO USE EPOXYGUARD 100:**

- Do not apply over previously sealed surfaces.
- Do not apply over poorly-bonded paint.
- Do not apply if moisture in the masonry surface is higher than 15% or if the moisture in the wood surface is higher than 13%.
- Do not apply to a poorly cured, dusty or contaminated concrete.
- Do not apply to surfaces exhibiting hydrostatic pressure.
- Do not apply if surface temperature is over 90°F. or below 55°F.
- Do not apply if surface pH level is above 8.
- Do not apply in windy conditions or if rain is expected within 24 hours.
- Do not apply to unsound substrates.

**CLEAN-UP:**

Clean tools and equipment with warm soap and water immediately after use. To remove dried coatings, use a legally compliant lacquer thinner. Dried material on tools or from overspray, drips or spatters will not be easily removed if allowed to dry.

**PERFORMANCE CHARACTERISTICS:**

**Crosshatch Adhesion:**

Method: ASTM D3359

Result: 4B

**Pencil Hardness:**

Method: ASTM D3363

Pencil Hardness: 3H - 5H

**Outdoor Weathering - UV Exposure**

Method: ASTM D4587, 300 Hours

Result: Gloss Retention 92%

**Corrosion Resistance**

Method: ASTM B117, 10 Wet Mils, 1 week cure

Result: 400 Hours Excellent

**Flexibility:**

Method: 1/4 inch, 6 mil bird bar, 14-days air dry

Result: On Tin: Pass

**Fade Resistance:**

Method: ASTM D151, QUV Type A Bulb, 1,000 Hours

Result: AE=0.89

Household Chemical Resistance: Excellent

Water Resistant: Excellent

Abrasion Resistance: Excellent

**NON-SLIP Properties:**

Meet coefficient of Friction Per UL 410 and ANSI A 137.1, using DCOF Acutes (sm) for Safety Standards Slip Resistance of Floor Surface Materials including (FCM), (FGM) and (FTM).

**MONOCHEM EPOXYGUARD 100** Meets or Exceeds the specified Requirements and Complies with The American Disability Acts for Slip Resistance.

SURFACE DRY: 0.76

SURFACE WET: 0.66

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