

### General Description

**HP3420 Pre-Catalyzed Waterborne Epoxy** provides epoxy toughness in a ready-to-use, waterborne formula for walls, ceilings and trim. The cured film is scrubbable, resists water and common cleaning chemicals and stands up to abrasion and marring. Excellent adhesion to many surfaces, including existing paint, drywall, primed masonry and primed metal. This product is suitable for use in USDA inspected facilities. This product contains antimicrobial additives that inhibit the growth of mold and mildew on the surface of the paint film.

- Efficient, single component formula
- Provides a mildew-resistant coating
- Durable finish for high traffic areas

### Usage

Properly Prepared and/or Primed Steel, Iron, Concrete, Non-Ferrous Metals, Wood & Drywall. HP3420 is designed for interior use in food and beverage processing, chemical processing, transportation, warehouses, industrial refurbishment, healthcare, schools, large commercial structures and other areas where a high performance coating is needed.

<b>Colors</b>	White (01)
<b>Bases</b>	7X, 8X, 9X
<b>Colorant System</b>	Gennex®

### Technical Data

<b>Resin</b>	Acrylic Epoxy	
<b>Pigment</b>	Titanium Dioxide	
<b>Volume Solids (mixed)</b>	38.5 ± 2%	
<b>Spread Rate Per Gallon</b>	350 – 450 Sq. Ft.	
<b>Recommended</b>	Wet:	3.6 – 4.6 mils
<b>Film Thickness</b>	Dry:	1.4 – 1.8 mils
Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess material.		
<b>Dry Time @ 77 °F</b>	To Touch:	1 hour
<b>(25 °C) @ 50% RH</b>	To Recoat:	2 hours
High humidity and cool temperatures will result in longer dry, recoat and service times.		
<b>Surface Temperature</b>	Min:	50 °F
<b>During Application</b>	Max:	90 °F
<b>Viscosity</b>	97 ± 4 KU	
<b>Flash Point</b>	> 200 °F (TT-P-141, Method 4293)	
<b>Sheen / Gloss</b>	20 – 30 @ 85°	
<b>Clean Up</b>	Warm, soapy water	
<b>Thinner</b>	Water	
<b>Weight Per Gallon (mixed)</b>	11 lbs.	
<b>Storage Temperature</b>	Min:	45 °F
	Max:	95 °F
<b>VOC</b>	91.6 g/L	0.76 lbs./gal

### Surface Preparation

Prior to painting any surface, area must be clean, dry and free of all grease, dirt, dust, oil and wax. Clean all surfaces using HP6000 Oil & Grease Emulsifier. Remove all remaining loose paint, rust and mill scale via Hand Tool Cleaning (SSPC-SP 2) or Power Tool cleaning (SSPC-SP 3). Fill holes and cracks and sand smooth. Glossy surfaces must be fully deglossed. Moderate to heavily rusted areas must be thoroughly prepared and active rust should be properly removed.

**WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator 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 National Lead Informational Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

### Primer Systems

**Ferrous Metal:** New metal surfaces should be primed with HP1100 Acrylic Metal Primer.

**Galvanized, Aluminum and Non-Ferrous Metals:** Clean oil from new galvanized metal by cleaning with HP6000 Oil & Grease Emulsifier. Prime new or un-rusted metal with HP1100 Acrylic Metal Primer or HP1750 Waterborne Bonding Primer.

**Wood:** Sand surfaces. Prime bare spots and new wood with an acrylic primer/sealer/undercoater. Apply one or two coats of HP3420 as needed.

**Drywall and Cured Plaster:** Sand surfaces. Prime with an acrylic primer/sealer/undercoater.

**Concrete/Masonry:** All vertical masonry surfaces must be allowed to cure a minimum of 30 days before painting. Acid etch or abrasive blast all slick, glazed concrete or concrete with laitance. For acid etching, follow all manufacturer's directions and safety instructions. Smooth surfaces should be coated with a masonry sealer followed by one or two coats of HP3420 as needed. Rough surfaces can be coated with a block filler to produce a smoother finish followed by one or two coats of HP3420 finish as needed.

### Limitations

- Not intended for use on floors
- Do not apply if material, substrate or ambient temperature is below 50 °F (10 °C)

### Compliance & Certifications

<b>OTC</b>	✓	
<b>OTC II</b>	✓	
<b>CARB</b>	✓	
<b>CARB07</b>	✓	
<b>CARB19</b>	✗	
<b>UTAH</b>	✓	
<b>AZMC</b>	✓	
<b>SCAQMD</b>	✗	
<b>Eligible for LEED® v4</b>		✓
<b>CDPH Emissions Certified</b>		✓
<b>Eligible for CHPS low emitting credit</b> (Collaborative for High Performance Schools)		✓
<b>MPI</b>		151

**Antimicrobial** - This product contains agents which inhibit the growth of microbes on the surface of this paint film. This product contains antimicrobial additives that inhibit the growth of mold and mildew on the surface of the paint film.

Suitable for use in USDA inspected facilities

### Technical Assistance

Available through your local authorized independent Benjamin Moore retailer.

call 1-866-708-9180  
visit [www.benjaminmoore.com](http://www.benjaminmoore.com)

## Application

Stir thoroughly before and during use. Apply one or two coats. For best results, use a premium nylon/polyester brush and premium roller. Apply paint generously from unpainted area into wet area. This product can also be sprayed.

### Spray, Airless:

Pressure / 2,000 – 2,500 PSI

Tip / 0.015 – 0.019

**NOTE:** Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with warm water. No reduction is necessary. Do not apply if material, substrate or ambient temperature is below 50 °F (10 °C). Relative humidity should be below 90%.

## Clean Up

Wash brushes, rollers, and other painting tools with soap and water immediately after use.

**USE COMPLETELY OR DISPOSE OF PROPERLY.** Dry, empty containers may be recycled in a can recycling program. Local disposal requirements vary; consult your sanitation department or state-designated environmental agency on disposal options.

CHEMICAL RESISTANCE GUIDE (NON-IMMERSION) *	
Hot Water	Excellent
Fresh Water	Excellent
Alcohol	Excellent
Vinegar	Excellent
Strong Alkalis (NaOH)	Excellent
Solvent (Xylene / M.S.)	Excellent
Industrial Cleaners	Excellent
* Ratings as compared to traditional high performance architectural coatings	

TEST DATA	
Flexibility (ASTM D1737)	Pass 1/8" Mandrel
Sag Resistance	6+ mils
Scrub Resistance	600+ cycles
Dry Heat Resistance	200 °F
Wet Heat Resistance	150 °F
Adhesion (ASTM D3359)	Passes 5B
Pencil Hardness (2 week cure)	6B
Block Resistance	Passes
Accelerated Weathering (ASTM G53) 500 Hrs	90% Gloss Retention < 0.25 DE Color Change
Abrasion Resistance (ASTM D4060) CS-10 Wheel, 1000g load	100 mg Loss
Salt Spray (ASTM B117) 2 coats over HP1100 (1000 Hours)	Rust Breakthrough: 10 Rust Area: 0.01%

## Environmental Health & Safety Information

**Use only with adequate ventilation.** Do not breathe spray mist or sanding dust. Ensure fresh air entry during application and drying. Avoid contact with eyes and prolonged or repeated contact with skin. Avoid exposure to dust and spray mist by wearing a NIOSH approved respirator during application, sanding and clean up. Follow respirator manufacturer's directions for respirator use. Close container after each use. Wash thoroughly after handling.



**WARNING** Cancer and Reproductive Harm— [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
Refer to the product label & Safety Data Sheet for product specific information.

**FIRST AID:** If affected by inhalation of vapors or spray mist, remove to fresh air. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention immediately; for skin, wash thoroughly with soap and water. If symptoms persist, seek medical attention. If swallowed, do not induce vomiting. Get medical attention immediately.

**IN CASE OF SPILL** – Absorb with inert material and dispose of as specified under "Clean Up".

**FOR METAL SUBSTRATES ONLY  
KEEP OUT OF REACH OF CHILDREN  
PROTECT FROM FREEZING**

**Refer to Safety Data Sheet for additional health  
and safety information.**