

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 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.

Colours	White (01)
Bases	7X, 8X, 9X
Colorant System	Gennex®

Technical Data

Vehicle	Acrylic Epoxy
Pigment	Titanium Dioxide
Volume Solids	38.5 ± 2%
Spread Rate Per 3.79 L	32.5 – 41.8 sq. m. (350 – 450 sq. ft.)
Recommended	Wet: 3.6 – 4.6 mils
Film Thickness	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 colour uniformity and minimize the disposal of excess paint.	
Dry Time @ 25 °C (77 °F) @ 50% RH	To Touch: 1 hour To Recoat: 2 hours
High humidity and cool temperatures will result in longer dry, recoat and service times.	
Surface Temperature	Min: 10 °C (50 °F)
During Application	Max: 32.2 °C (90 °F)
Viscosity	97 ± 4 KU > 93 °C / 200 °F
Flash Point	(TT-P-141, Method 4293)
Sheen / Gloss	20 – 30 @ 85°
Clean Up	Warm, soapy water
Thinner	Water
Weight Per 3.79 L	4.9 kg (11 lbs.)
Storage Temperature	Min: 7.2 °C (45 °F) Max: 35 °C (95 °F)
VOC	91.6 g/L

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 logging onto Health Canada @ <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/environmental-contaminants/lead/lead-information-package-some-commonly-asked-questions-about-lead-human-health.html>

Primer Systems

Ferrous Metal: New metal surfaces should be primed with HP1320 Alkyd Metal Primer or 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.

Compliance & Certifications

Eligible for LEED® v4	✓
CDPH Emissions Certified	✓
Eligible for CHPS low emitting credit (Collaborative for High Performance Schools)	✓
MPI	151

Anti-microbial - 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 mould and mildew on the surface of the paint film.

This product has been approved by CFIA (Canadian Food Inspection Agency) for use in Food Processing Facilities.

Limitations

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

Technical Assistance

Available through your local authorized independent Benjamin Moore retailer.

call 1-800-361-5898
visit www.benjaminmoore.ca

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 10 °C / 50 °F. 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	93.3 °C / 200 °F
Wet Heat Resistance	65.5 °C / 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 in a well ventilated area. Keep container closed when not in use. In case of spillage, absorb with inert material and dispose of in accordance with local regulations. Wash thoroughly after handling.

**KEEP OUT OF REACH OF CHILDREN
PROTECT FROM FREEZING**

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