



HP | HIGH PERFORMANCE

HP1320

Universal Metal Primer

## General Description

**HP1320 Universal Metal Primer** is a high-performance, one-component, quick-dry, rust-inhibitive metal primer, formulated for use on ferrous metal substrates. The phenolic alkyd resin formulation allows for a wide variety of intermediate and finish coats. The quick dry and recoat times allow for fast turnaround of production work. Additionally, this product may be used as a tie coat over existing coatings that will be finished with a high performance coating. Not recommended for non-ferrous metals such as galvanized, aluminum or for use in immersion service. May be applied to new or properly prepared rusted surfaces

- Fast 30-minute dry
- Use over many existing coatings
- Corrosion protection on all ferrous metals
- Accepts most topcoats

## Usage

Ferrous Metal such as Steel & Iron. Universal Metal Primer is a high performance coating specifically designed for application directly to ferrous metal substrates. It provides corrosion resistance for both interior and exterior steel surface in mildly corrosive conditions.

Colours	White (01), Red (20), Grey (70)
Colorant System	Industrial Maintenance (up to 60 mL per 3.79 L)

## Technical Data

Vehicle	Phenolic Alkyd
Pigment	Titanium Dioxide
Volume Solids	50 ± 2%
Spread Rate Per Gallon	32,5 – 41,8 sq. m. (350 – 450 Sq. Ft.)
Recommended Wet:	3.6 – 4.6 mils
Film Thickness Dry:	1.8 – 2.3 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 material.	
Dry Time @ 25 °C (77 °F) @ 50% RH	To Touch: 30 minutes To Recoat: 4 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 °C (90 °F)
Viscosity	73 ± 4 KU
Flash Point	10 °C (50 °F) (TT-P-141, Method 4293)
Sheen / Gloss	0 – 3 @ 85°
Clean Up	HP7030 or Xylene
Thinner	Do not thin
Weight Per Gallon	5.8 kg (11.2 lbs.)
Storage Temperature Min:	4.4 °C (40 °F)
Max:	37.8 °C (100 °F)
VOC	< 400 g/L

## Surface Preparation

All grease, oil, dirt, mildew, or any other surface contaminants must be removed using HP6000 Oil & Grease Emulsifier or SSPC-SP1 solvent cleaning.

### Ferrous Metal:

All loose rust and mill scale should be removed prior to applying this product. A minimum of SSPC-SP6 Commercial Blast or abrasive blasting is recommended for severe environmental exposures. Small areas may be cleaned in accordance with SSPC-SP2 Hand Tool Cleaning or SSPC-SP3 Power Tool Cleaning or SSPCSP13 Power Tool Cleaning to bare metal. Tightly adhering rust may be coated over provided the surface is intended for use in mild atmospheric exposures.

### Previously Painted Surfaces:

Clean using HP6000 Oil & Grease Emulsifier or solvent washed as outlined above. Dull glossy surfaces by sanding. Remove all loose, flaking or peeling paint prior to application.

**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>

## Limitations

- Not recommended for non-ferrous metals such as galvanized, aluminum or for use in immersion service
- Do not apply if material, substrate or ambient temperature is below 10 °C (50 °F)

## Compliance & Certifications

**MPI** 76, 79

Meets CISC/CPMA 1-73a and CISC/PMA 2-75 Specifications

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

## Application

Mix the product thoroughly before application. The use of a drill mixer at low speed will best accomplish this.

Do not thin

### Spray, Airless:

Pressure / 1,500 – 2,200 PSI

Tip / 0.013 – 0.017

### Air Spray (Pressure Pot):

704 or 765 air cap and Fluid Tip E

Can be brushed using a natural bristle brush or rolled using a 10 mm (3/8") lambs wool or 6 – 13 mm (1/4" – 1/2") synthetic roller cover

**NOTE:** Do not apply if material, substrate or ambient temperature is below 10 °C (50 °F) or above 32 °C (90 °F) Relative humidity should be below 90% Do not apply if within 5 degrees of dew point or if rain is expected within 12 hours of application

## Technical Assistance

Available through your local authorized independent Benjamin Moore retailer.

call 1-866-708-9180

visit [www.benjaminmoore.ca](http://www.benjaminmoore.ca)

Clean Up

Wash brushes, rollers, and other painting tools with HP7030 or Xylene 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.

TEST DATA	
Steam Resistant	Yes
Flexibility (ASTM D1737)	Pass 6.4 mm/¼" Mandrel
Dry Heat Resistance	121 °C (250 °F)
Wet Heat Resistance	65.6 °C (150 °F)
Adhesion (ASTM D3359)	Pass 5B
Salt Spray (ASTM B117)	Face Corrosion – None
Topcoat HP5000; 1000 Hours	Face Blistering – None
Humidity (ASTM D4585)	Face Corrosion – None
Topcoat HP5000; 1000 Hours	Face Blistering – None

Environmental Health & Safety Information

**DANGER!**  
**Causes skin irritation**  
**Causes serious eye irritation**  
**May cause an allergic skin reaction**  
**May cause cancer**  
**Causes damage to organs through prolonged or repeated exposure**  
**May be fatal if swallowed and enters airways**  
**Highly flammable liquid and vapor**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use only non-sparking tools. Take action to prevent static discharges.

**Response:** IF exposed or concerned: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. In case of fire: Use CO2, dry chemical, or foam for extinction.

**Storage:** Store locked up. Store in a well-ventilated place. Keep cool.

**Disposal:** Dispose of contents/container to an approved waste disposal plant. Materials such as rags used with this product may begin to burn by themselves. After use, put rags in water or lay flat to dry, then discard.

This document represents hazards of the product referenced above. Refer to the individual Safety Data Sheet for hazards of the specific product you will be using.

**FOR METAL SUBSTRATES ONLY**  
**KEEP OUT OF REACH OF CHILDREN**

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