



HP | HIGH PERFORMANCE

HP2400
Rapid Dry Alkyd Enamel

General Description

HP2400 Rapid Dry Alkyd Enamel is a high-performance, quick-dry, rust-preventive enamel formulated for use on properly prepared ferrous and non-ferrous metal substrates. HP2400 is excellent for use in shop application environments and is ideal for the industrial and metal fabrication markets.

- Tack-free in 10 minutes – recoat in 2 hours
- Hard, scratch- and impact-resistant coating
- For shop and OEM spray applications only

Usage

Rapid Dry Alkyd Enamel is for use in shop application facilities in the fabrication market. For interior or exterior bare or properly primed ferrous metal and properly primed non-ferrous metal substrates.

Colors	White (01), Safety Yellow (10), Safety Red (20), Safety Blue (30) Black (80), Satin Black (192)
Bases	7B, 8B, 9B
Colorant System	Industrial

Technical Data

Resin	Modified alkyd	
Pigment	Titanium Dioxide	
Volume Solids (mixed)	38 ± 2%	
Spread Rate Per Gallon	350 – 450 Sq. Ft.	
Recommended	Wet:	3.6 – 4.6 mils
Film Thickness	Dry:	1.4 – 1.7 mils
Depending on surface texture and porosity.		
Dry Time @ 77 °F	To Touch:	10 minutes
(25 °C) @ 50% RH	To Recoat:	2 hours*
*Maximum Recoat: Refer to the application section for recoat information.		
High humidity and cool temperatures will result in longer dry, recoat and service times.		
Surface Temperature	Min:	50 °F
During Application	Max:	90 °F
Viscosity	68 ± 4 KU	
Flash Point	80 °F (TT-P-141, Method 4293)	
Sheen / Gloss	Satin Black (192)	35 – 45 @ 60°
	All Other Colors:	85+ @ 60°
Clean Up	HP7010	
Thinner	Do Not Thin	
Weight Per Gallon	9.8 lbs.	
Storage Temperature	Min:	45 °F
	Max:	95 °F
VOC	< 575 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 contacting the National Lead Informational Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Primer Systems

Ferrous Metal: Self-priming
For additional protection, HP1320 Alkyd Metal Primer or HP1100 Acrylic Metal Primer can be used

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.

Limitations

- Do not apply if material, substrate or ambient temperature is below 50 °F (10 °C).
- This product can lose gloss and may fade if subjected to direct sunlight.
- Not recommended for floors, exterior wood surfaces or extreme environments.

Compliance & Certifications

OEM/SHOP USE ONLY

MPI 96

Application

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

Spray, Airless:

Pressure / 2,200 – 2,500 PSI
Tip / 0.013 – 0.017

NOTE: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner. 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%. Do not apply if within 5 degrees of dew point or if rain is expected within 12 hours of application.

Recoating HP2400 with itself:

Due to the curing mechanism of this coating, recoating should take place between the minimum recoat time (listed in Technical Data Table) and 8 hours.

If more than 8 hours has elapsed, wait a total of 24 hours before recoating, or wrinkling could occur. After 24 hours (at 77 °F) recoating will not be a problem. If recoating is necessary after 8 hours and before 24 hours, scuff sand with 180 grit sandpaper and let stand 30 minutes before applying the next coat.

Technical Assistance

Available through your local authorized independent Benjamin Moore retailer.

call 1-866-708-9180
visit www.benjaminmoore.com

Clean Up

Wash brushes, rollers, and other painting tools with HP7010 immediately after use.

DANGER: Rags, steel wool or waste soaked with the product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container.

USE COMPLETELY OR DISPOSE OF PROPERLY. This product contains organic solvents which may cause adverse effects to the environment if handled improperly. Emptied containers may retain product residue. Follow label warnings even after container is emptied. Residual vapors may explode on ignition. Disposal of wastes containing either organic solvents or free-liquids in landfills is prohibited. Local disposal requirements vary; consult your sanitation department or state-designated environmental agency for local disposal options.

CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)	
Fresh Water	Excellent
Salt Water	Excellent
Acids	Good
Alkalis	Good
Solvents	Fair
Fuel	Fair
Acidic Salt Solutions	Good
Alkaline Salt Solutions	Good
Neutral Salt Solutions	Good

TEST DATA	
Flexibility (ASTM D1737)	Pass 1/4" (6.35 mm) Mandrel
Dry Heat Resistance	300 °F
Wet Heat Resistance	150 °F
Adhesion (ASTM D3359)	Pass 5B
Salt Fog Resistance (ASTM B117) Two coats over HP1320	500 Hours-Pass (Rating 10, Rust Area 0.00%)
Abrasion Resistance (ASTM D4060) CS10 Wheel	120 mg loss after 1000 cycles

Environmental Health & Safety Information

Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. 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.

Storage: Store locked up. Store in a well-ventilated place. Keep container tightly closed.



WARNING Cancer and Reproductive Harm— www.P65Warnings.ca.gov
Refer to the product label & Safety Data Sheet for product specific information.

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

**FOR PROFESSIONAL USE ONLY
KEEP OUT OF REACH OF CHILDREN**

**THIS PRODUCT IS INTENDED FOR SHOP OR OEM
APPLICATION ONLY**

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