

General Description

HP1550 Concrete and Metal Epoxy Primer is a two component penetrating epoxy sealer. This product is formulated for use on clean, rusted steel where extensive surface preparation is needed, but not possible. The penetrating properties and extended dry time of HP1550 provides a method of reinforcing rusty steel surfaces, ensuring adhesion of subsequent coatings. This product also exhibits excellent penetration and sealing of masonry substrates and can also be used as a barrier coat when applying high performance coating systems over existing alkyd coatings. This is a two-component product that requires 3 parts of the proper "A" component mixed with 1 part of part "B" catalyst. The components are already premeasured to the proper mix ratio. No measuring required. Do not mix partial kits.

- Low viscosity, penetrating formula
- Bonds to tightly adhered rust
- Seals bare and previously coated surfaces
- 100% solids formula

Usage

Designed for the reinforcement of rusted steel, "white rusted" galvanized metal, and masonry. HP1550 Concrete and Metal Epoxy Primer seals loose edges and crevices, pinholes and other surface imperfections.

Colours	Clear (00)
Colorant System	Do Not Tint

Technical Data

Vehicle	Epoxy
Volume Solids	100 ± 2%
	46.5 – 74.3 sq. m. (500 – 800 Sq. Ft.)
Spread Rate	(Concrete)
Per Gallon	74.3 – 111.5 sq. m. (800 – 1200 Sq. Ft.) (Metal/Previously Coated)
	2.0 – 3.2 mils
Recommended	Wet / (Concrete)
Film Thickness	Dry: 1.3 – 2.0 mils
	(Metal/Previously Coated)
Depending on surface texture and porosity.	
Dry Time @ 25 °C (77 °F) @ 50% RH	To Touch: 12 hours
	To Recoat: 12 hours
SERVICE TIME: Light Industrial Use: 72 Hours	
Moderate to Heavy Industrial Use: 5 – 7 days	
Recoat after 72 hours: Abrade the surface to ensure proper inter-coat adhesion.	
Surface Temperature	Min: 10 °C (50 °F)
During Application	Max: 32 °C (90 °F)
Viscosity	30 – 50 seconds (#2 Zahn Cup)
Flash Point	57.2 °C (135 °F)
	(TT-P-141, Method 4293)
Clean Up	HP7040
Thinner	Do not thin
Mixed Ratio (by volume)	3 : 1
Induction time @ 25 °C (77 °F)	30 minutes
Pot Life @ 25 °C (77 °F)	3 – 4 hours
Weight Per Gallon	4 kg (9 lbs.)
Storage	Min: 7.2 °C (45 °F)
Temperature	Max: 35 °C (95 °F)
VOC	23 g/L

Surface Preparation

Surfaces 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.

All masonry surfaces must be allowed to cure a minimum of 30 days before painting. Acid etch or mechanically abrade all slick, glazed concrete or concrete with laitance. For acid etching, follow ASTM D4260 and manufacturer's directions and safety instructions. Follow ASTM D4259 for creating a surface profile by abrasion. Rinse thoroughly and allow to dry.

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

- Do not apply if material, substrate or ambient temperature is below 10 °C (50 °F) or greater than 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.

Mixing Instructions

This is a two-component product and is pre-proportioned for error free mixing. Mix "A" & "B" separately.

- 1.) Carefully empty the entire contents of HP1550.90 (Part B) into the can of HP1550.00 (Part A), scraping the sides of both parts to ensure all liquid has been added.
- 2.) Using a drill mixer at low speed, blend this mixture for three to five minutes until completely blended. Keep the mixing blade turning at a slow speed to minimize whipping air into material. Scrape sides of pail during the mixing process.
- 3.) Allow to induct for 30 minutes at 25 °C (77 °F) prior to application.

Pot Life:

3 – 4 hours at 25 °C (77 °F)

Technical Assistance

Available through your local authorized independent Benjamin Moore retailer.

call 1-866-708-9180

visit www.benjaminmoore.ca

Application

Airless Spray: Apply with .009 tip and low pressure (just enough to atomize the product).

Air Spray (Preferred for appearance and film build): To minimize over spray, use low air pressure and a pot pressure of 5-10 PSI.

Brush: Natural Bristle only

Roller: Industrial Cover with Phenolic core with a 6.35 mm (¼") nap.

Must be top-coated within 72 hours of being tack free.

NOTE: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with HP7040. Do not thin.

Where non-skid characteristics are desired, hand broadcast an appropriate anti-slip aggregate into the wet film then back-roll to encapsulate. HP6300 works well for opaque finishes although will be noticeable in clear finishes.

Clean Up

Wash brushes, rollers, and other painting tools with HP7040 immediately after use.

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

TEST DATA	
Steam Resistance	Yes
Dry Heat Resistance	148.8 °C (300 °F)
Wet Heat Resistance	65.5 °C (150 °F)
Adhesion (ASTM D3359)	Pass 5A

Environmental Health & Safety Information

Causes skin irritation

Causes serious eye damage

May cause an allergic skin reaction

Suspected of causing genetic defects

May cause respiratory irritation

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. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection.

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 ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

Disposal: Dispose of contents/container to an approved waste disposal plant.

CAUTION: All floor coatings may become slippery when wet. Where non-skid characteristics are desired, use an appropriate anti-slip aggregate.

FOR PROFESSIONAL USE ONLY

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