



Metallic Prime

A Clear Primer for Preferred Metallic Epoxy

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TECHNICAL DATA SHEET

DESCRIPTION AND USE: Preferred Deck's **Metallic Prime** is a two-component, water-based epoxy primer that is easy to use and has excellent performance properties. This low-odor material adheres tenaciously to a variety of substrates, including damp or wet concrete (no standing water.) **Metallic Prime** is Step #1 in the Preferred Metallic Epoxy System.

CHEMICAL COMPOSITION: Modified Bisphenol A epoxy resin crosslinked with a water soluble amine adduct.

COLORS: Clear. The Standard Size of **Metal Essence Metallic** powder (6 standard colors) is added to this primer.

LIMITATIONS:

- Exterior applications are not recommended
- Acid etched surfaces must be thoroughly rinsed before coating
- Not recommended for use over acid stain

SURFACE PREPARATION: Concrete must be cured a minimum of 30 days and must be clean, dry, and structurally sound. All loose paint and curing compounds must be removed. Concrete should be shot blasted, acid-etched or diamond ground to achieve a minimum 5 mil profile. For easiest surface preparation, use Preferred Deck's **Super Deck Prep**. If acid-etching, use of a floor machine with a nylogrit brush. Do not allow the etching solution to dry on the concrete. The etched surface must be thoroughly rinsed. Pressure washing after etching is ideal. Do not neutralize with a base material. If surface is prepared by diamond grinding, grind thoroughly to "open up" the surface. Vacuum up concrete dust and rinse the surface well. Previously coated surfaces must be mechanically cleaned and abraded with 60-80 grit sandpaper. Adhere strictly to the Preferred Epoxy Surface Preparation Guidelines.

COVERAGE RATE: Each 1.25 gallon kit covers approx. 300 sq. ft. Coverage varies greatly depending on application technique, weather conditions, and type of substrate.

CLEAN UP: Isopropyl alcohol, MEK or acetone.

PREFERRED METALLIC EPOXY SYSTEM: Use Preferred Deck's **Metallic Prime** (Step #1) and let dry overnight. Apply the **Metallic Coat** (Step #2) and let dry overnight. Apply **Clear Poly Glaze** (Step #3.) Applications that lack this final coating will be very prone to scratching.

Physical Properties

Mixing Ratio, by Volume: 4-1
Solids Content, by Weight: 51%
Solids Content, by Volume: 43.5%
Volatile Organic Compounds: 50 grams/liter
Pot Life (77°F): 2-3 hours
Cure Times (77 degrees):
Dry to Touch: 2 hours
Recoat: 12-18 hours
Light Traffic: 18-24 hours
Full Cure: 7 days

Note: Higher temperatures and lower humidity will accelerate cure times. Lower temperatures and high humidity will lengthen cure time.

Performance Properties

Gloss (60 degrees): 85-90
Pencil Hardness (ASTM D-3363): F-H
Adhesion to damp concrete (ASTM D-451):
Concrete fails before loss of bond
Tabor Abrasion: 60-65 mg. loss
(1000 gm. load 1000 cycles, CS 17 wheel)

Chemical and Stain Resistance

(ASTM D-1308. 24-Hour Immersion)

Coffee: No effect
Vegetable Oil: No effect
Mustard: No effect
Whiskey: No effect
Urine: No effect
Trisodium Phosphate (25% solution): No effect
Gasoline: No effect
Motor Oil: No effect
Brake Fluid: Slight softening, film recovers
Transmission Fluid: No effect
Mineral Spirits: No effect
10% Sulphuric Acid: No effect
10% Hydrochloric Acid: No effect
10% Acetic Acid: No effect
Xylene: Slight softening, film recovers
MEK: Film destroyed

Preferred Deck Systems

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TECHNICAL DATA SHEET (cont.)

MOISTURE VAPOR EMISSIONS/ ALKALINITY PRECAUTIONS:

All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission and related high levels of alkalinity that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions or alkalinity are present before applying any coatings. Preferred Deck Systems and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions or related high levels of alkalinity.

MIXING INSTRUCTIONS: Mix only that amount of material that can be used in a 2-3 hour period. In very hot weather, it is advisable to mix smaller batches to ensure good flow and workability. Premix Part A and pour into a separate bucket. Add the **Metal Essence Metallic** powder of your choice and mix thoroughly using a low-speed drill. Then add Part B and 1Part water (it is easiest to just fill up the empty Part B container (so the mixing ratio is 4A: 1B: 1 water.) **Mix for 2 full minutes**, scraping the bottom and sides of the mixing vessel.

APPLICATION RECOMMENDATIONS: **Metallic Prime** can be applied with a brush, roller or airless sprayer onto slightly damp concrete (no standing water.) If bubbles are created during application, continued rolling will cause them to disappear. **Metallic Prime** should normally be recoated after an overnight cure period. However, if conditions are very cool and/or damp, 48 hours cure time may be needed before recoating. If the product cures longer than 72 hours, the surface should be lightly sanded before recoating.

SLIP AND FALL PRECAUTIONS: OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Preferred Deck recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. Preferred Deck or its sales agents will not be responsible for injury incurred in a slip and fall accident.

HANDLING PRECAUTIONS: Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin; wear protective gloves. Read Material Safety Data Sheet before using.

WARNING: Harmful if swallowed. Avoid contact with eyes and skin. Goggles and gloves are recommended. Avoid breathing mist or vapors. Use a MSHA/NIOSH approved respirator. Use with adequate ventilation.

FIRST AID: **INGESTION:** Obtain medical attention at once. **EYE CONTACT:** Flush with clean water for 15 minutes and obtain medical attention. **INHALATION:** Remove to fresh air and obtain medical attention. **SKIN CONTACT:** Wash with soap and water. Obtain medical attention if irritation is severe or persistent.

WARRANTY INFORMATION: Preferred Deck products have a limited two year, non-transferable warranty. This warranty refers to such failures as flaking, peeling, chipping and is limited by the specific items listed below. All warranty issues will be investigated by Preferred Deck with the cooperation of the contractor who installed the product. The end-user may be present during this investigation process, but no investigation will occur directly with the end-user (without the presence of the contractor.) Preferred Deck will not under any circumstance be liable for damages in excess of the purchase price of the products used on the job. Preferred Deck is not liable for consequential or secondary damages resulting from the failure of a warranted item or the failure to provide service due to conditions beyond its control. **LIMITATIONS ARE DAMAGES CAUSED BY:** 1. The customer due to neglect, abuse, or lack of reasonable care. 2. Settling due to expansive soil, fill dirt movement, drainage, or alkali-silica reaction. 3. Acts of God. 4. Improper installation. All claims must be reported in writing to Preferred Deck within ten days.

DISCLAIMER AND LIMITATION OF LIABILITY

To the best of our knowledge, the information contained herein is accurate. The warranty described herein shall be in lieu of any other warranty, expressed or implied including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. There are no warranties that extend beyond the description of the face hereof. The Buyer's sole and exclusive remedy against the Seller shall be for the replacement of the products or refund of the purchase price in the event that a defective condition of the products should be found to exist. No other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available to the Buyer. The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the products or refund of the purchase price of the products if any defect in materials or workmanship is found to exist. The exclusive remedy shall not be deemed to have failed its essential purpose so long as the Seller is willing and able to replace the defective products or refund the purchase price. The Buyer must give the Seller notice in writing of any alleged defect covered by this warranty together with all identifying details, including the Product Code(s), description and date of purchase, within thirty (30) days of the discovery of the defect. Final determination of the suitability of the material for the use contemplated, the manner of use, and whether the use infringes any patents, is the sole responsibility of the Buyer. Dispose of unwanted material per federal, state, and local regulations.

FOR PROFESSIONAL USE ONLY. KEEP OUT OF THE REACH OF CHILDREN.

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