



Metallic Coat

A Clear Resin for Preferred Metallic Epoxy

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TECHNICAL DATA SHEET

DESCRIPTION AND USE: Preferred Deck's **Metallic Coat** is a two-component, low viscosity, 100% solids resin that gets mixed with the **Metal Essence Metallic** powder of your choice. Together these three items (Part A, Part B, and **Metal Essence Metallic** powder) comprise Step #2 of the Preferred Metallic Epoxy System. This material cures blush-free and provides an outstanding balance of physical strength, flexibility and chemical resistance.

The versatility of **Metallic Coat** makes it ideal for a wide variety of flooring applications including manufacturing facilities, warehouses, and other areas requiring high performance flooring. While the chemical and stain resistance properties are excellent, this product is not recommended for food processing areas, commercial kitchens, wineries or other areas that receive constant corrosive exposure. This product is intended for indoor use only. *NOTE:* A fast-cure hardener is available when cold weather cure (down to 40°F) or accelerated room temperature cure is required.

CHEMICAL COMPOSITION: Modified Bisphenol A epoxy resin crosslinked with aliphatic and cycloaliphatic polyamines.

COLOR: Clear. The Standard Size of **Metal Essence Metallic** powder (6 standard colors) is added to this two-component resin.

LIMITATIONS:

- Must be applied to a clean, dry surface.
- Exterior applications will show chalking.

COVERAGE RATE: 1.5 gallon kit covers approx. 150-200 sq. ft.

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.

APPLICATION: **Metallic Coat** may be applied by roller, trowel or squeegee. Many contractors use a Magic Trowel to spread out the material, then back-roll with a roller (while wearing spiked shoes.)

Physical Properties

Mixing Ratio, by Volume: 2-1
Solids Content, by Weight: 100%
Volatile Organic Compounds: 10 grams/liter
Viscosity, cps (77°F): 250
Pot Life (77°F, 1 quart mass): 30 minutes. *Note:* Pot Life is reduced by increasing mass and/or temperature.
Cure Times (77°F):
Dry to Touch: 6 hours
Light Traffic: 16 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

Tensile Strength, psi (ASTM D-638): 6,230
Ultimate Elongation, % (ASTM D-638): 11
Compressive Yield Strength, psi (ASTM D-695): 9,850
Ultimate Compressive Strength, psi (ASTM D-695): 19,501
Ultimate Flexural Strength, psi (ASTM D-790): 9,680
Hardness, Shore D (ASTM D-2240): 83
Bond Strength to Concrete (ACI 503.4-2.3.2.2): Concrete fails before loss of bond

Chemical and Stain Resistance

(ASTM D-1308. 24-Hour Immersion)

Vegetable Oil: No effect
Mustard: No effect
Urine: 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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MADE IN USA





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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.

SURFACE PREPARATION: The surface should first be coated with **Metallic Prime** and let dry overnight. Adhere strictly to the Preferred Epoxy Surface Preparation Guidelines.

MIXING INSTRUCTIONS: Pot life is 35 minutes at 77 degrees. Work times are shortened by higher temperatures. The combining ratio for **Metallic Coat** is 2 Parts A to 1 Part B. If not using the entire kit, portion amounts carefully. Using a low-speed drill, thoroughly mix the **Metal Essence Metallic** powder of your choice into the Part A. Then add Part B and mix for **two full minutes**, scraping the bottom and sides of the mixing vessel. Pouring material onto floor immediately after mixing will extend work time.

CLEAN UP: Isopropyl alcohol, MEK or acetone.

HANDLING PRECAUTIONS: Do not breathe vapors. Use appropriate respirator with green band cartridge to protect against methyl amine vapors. Avoid contact with skin; wear protective gloves. Read Material Safety Data Sheet before using.

SLIP AND FALL PRECAUTIONS: Preferred Deck recommends the use of angular slip-resistant aggregate in all coatings and 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. The coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps.

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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