

Metallix is a medium viscosity 100% solids epoxy coating. It has an extremely durable finish coat for concrete flooring applications. Metallix provides outstanding filling and leveling characteristics, while also providing a high gloss finish.

Recommended for warehouses, kitchens, restrooms, garage floors and other areas where either a decorative abrasion resistant floor coating is needed.

**SOLIDS BY WEIGHT:** 100%

**SOLIDS BY VOLUME:** 100%

**VOLATILE ORGANIC CONTENT:** Zero pounds per gallon

**STANDARD COLORS:** see puremetallix.com for color options

**RECOMMENDED FILM THICKNESS:** 10 mils

**COVERAGE PER GALLON:**

For Best Results apply basecoat at 200 sq/ft per .75 gal unit  
Effects Kits: apply at 100-150 sq/ft per quart kit

### PACKAGING INFORMATION

Various kit sizes available

**MIX RATIO:**

2 parts A to 1 part B

**SHELF LIFE:** 6 months in unopened containers

**FINISH CHARACTERISTICS:**

Gloss (60 to 90 @ 60 degrees @ Erichsen glossmeter)  
(different colors can provide different sheens)

**ABRASION RESISTANCE:**

Taber abramer CS-17 calibrase wheel with 1000 gram total load and  
500 cycles = 36 mg loss

**FLEXURAL STRENGTH:**

7,400 psi @ ASTM D790

**COMPRESSIVE STRENGTH:**

11,200 psi @ ASTM D695

**ADHESION:**

350 psi @ elcometer (concrete failure, no delamination)

**VISCOSITY:**

Mixed = 700-1000 cps (typical)

**DOT CLASSIFICATIONS:**

Part A "not regulated"

Part B "CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII"

**TENSILE STRENGTH:**

4,500 psi @ ASTM D638

1,900 psi @ ASTM C 307

**ULTIMATE ELONGATION:**

4.1%

**GARDNER VARIABLE IMPACTOR:**

50 inch pounds direct – passed

**HARDNESS:**

Shore D = 81

### CURE SCHEDULE:

pot life – 1 1/2 gallon volume ..... 20-30 minutes @ 70° F

tack free (dry to touch).....6-8 hours @ 70° F

recoat or topcoat..... 10-16 hours @ 70°F

light foot traffic.....12-18 hours @ 70°F

full cure (heavy traffic).....2-7 days @ 70°F

### APPLICATION TEMPERATURE:

55-90 degrees F

### CHEMICAL RESISTANCE:

REAGENT	RATING
butanol	C
xylene	C
1, 1, 1 trichloroethane	B
MEK	A
methanol	A
ethyl alcohol	C
skydrol	B
10% sodium hydroxide	E
50% sodium hydroxide	D
10% sulfuric acid	C
70% sulfuric acid	A
10% HC1 (aq)	C
5% acetic acid	B

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

### PRIMER:

Recommended, For best results use Waterborne Epoxy. (Norklad WB Waterborne Epoxy)

### TOPCOAT:

Optional – Recommended Coatings Original Color Chips WBC-510, HWU 420 - High Wear Urethane, or Norklad 100- 100% Solids Epoxy depending on application variables

### LIMITATIONS:

\*Color stability or gloss may be affected by environmental conditions such as high humidity, chemical exposure, UV exposure or exposure to lighting such as sodium vapor lights.

\*Colors may vary from batch to batch. Therefore, use only product from the same batch for an entire job.

\*This product is not UV color stable. Clear aliphatic urethane topcoats reduce (UV light) color changes.

\*Substrate temperature must be 5°F above dew point.

\*For best results, apply with a ¼" or 3/8" nap roller.

\*All new concrete must be cured for at least 30 days prior to application.

\*Apply a color coordinated primer before using this product

\*See reverse side for application instructions.

\*Physical properties are typical values and not specifications.

\*See reverse side for limitations of our liability and warranty.

**PRODUCT STORAGE:** Store product at normal room temperature before using. Continuous storage should be between 60 and 90<sup>0</sup> F. Low temperatures or temperature fluctuations may cause crystallization. Product must be used within 6 months of purchase.

**SURFACE PREPARATION:** The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'x4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding. The Metallix coating needs to be applied to a color coordinated primed surface.

**PRODUCT MIXING:** This product has a mix ratio of 2 parts A to 1 part B. We highly recommend that the kits not be broken down unless suitable measuring equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed. The material will not be streak free. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the primed substrate. Improper mixing may result in product failure.

**PRIMING:** A suitable primer should be used before applying this product. See the front side of this technical data for primer information

**PRODUCT APPLICATION:** The mixed material can be applied by brush, roller or a serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. When using this product in conjunction with the Metallix Effects, it should be spread between 150 -200 sq/ft per kit (.75 gal kit). It can be squeegeed or roller applied. There will be roller marks when using this coating, it is unavoidable. Therefore it's best to roll out the area desired, then roll forward in one direction throughout. Once the effects are dispersed onto the still-wet coating, the roller marks will dissipate and unnoticeable after the self-leveling takes place.

**RECOAT OR TOPCOATING:** If you opt to topcoat this product, you must first be sure that the coating has tacked off before recoating. Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to topcoating or recoating. Many epoxy coatings and urethanes are compatible for use as a topcoat for this product.

**CLEANUP:** Use xylol (xylene)

**FLOOR CLEANING:** Caution! Some cleaners may affect the color. Test each cleaner in a small area. If no ill effects are noted, you can continue to clean with the product and process tested.

**RESTRICTIONS:** Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle.

## GENERAL PRODUCT PERFORMANCE:

### Test Type Test Method Result

Abrasion Resistance	ASTM D 4060	92 mg. max. weight loss
Flammability	ASTM D 635	Self extinguishing,.25 inches
Tensile Strength	ASTM D 638	4,500 psi
	ASTM C 307	1,900 psi
Compressive	ASTM C 579	10,400 psi

#### NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

*We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Listed physical properties are typical and should not be construed as specifications. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.*