

### CPI 100% EPOXY+UV

**PRODUCT DESCRIPTION:** CPI 100% EPOXY+UV is a two component 100% solids epoxy seal coat which incorporates UV resistance additives that can be used either as a coating or filled with paint chips, marble chips and colored sand mixtures to provide an infinite array of color schemes or patterns.

**RECOMMENDED FOR:** Recommended for warehouses, kitchens, restrooms, and other areas where either a high build clear product is needed or where a decorative filled floor is desired and better UV resistance is needed.

**SOLIDS BY WEIGHT:**

100%

**SOLIDS BY VOLUME:**

100%

**VOLATILE ORGANIC CONTENT:**

Less than 3 g/l

**STANDARD COLORS:**

Clear

**RECOMMENDED FILM THICKNESS:**

16-18 mils

**COVERAGE PER GALLON:**

90-100 square feet per gallon @ 16-18 mils

**PACKAGING INFORMATION**

3 gallon kits (2.95 gallons net approximately)

15 gallon kits (14.75 gallons net approximately)

**MIX RATIO:**

2 Parts A to 1 Part B

**SHELF LIFE:**

1 year in unopened containers

**FINISH CHARACTERISTICS:**

Gloss (60 to 90 @ 60 degrees @ glossmeter)

**ABRASION RESISTANCE:**

Taber abraser 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, UNI1760, PGIII"

**TENSILE STRENGTH:**

7,600 psi @ ASTM D638

**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 ..... 25-35 minutes @ 70° F

tack free (dry to touch).....8-12 hours @ 70° F

recoat or topcoat..... 16-24 hours @ 70°F

light foot traffic.....24-36 hours @ 70°F

full cure (heavy traffic)... .....5-8 days @ 70°F

**APPLICATION TEMPERATURE:**

55-90 degrees F, below 75% humidity

**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
10% HCl (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 CPI Water Based Epoxy

**TOPCOAT:**

Optional - High Performance urethanes or successive coats of CPI 100% EPOXY+UV in aggregate filled systems, with or without a clear urethane topcoat.

**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.
- \*This product is not UV color stable but has very good UV resistance for an epoxy product. Clear aliphatic urethane topcoats can further reduce (UV light) color changes.
- \*Substrate temperature must be 5°F above dew point.
- \*For best results, apply with a ¼" nap shed free roller.
- \*All new concrete must be cured for at least 30 days prior to application.
- \*Apply a suitable primer before using this product.
- \*See next page for application instructions.
- \*See next page for limitations of our liability and warranty.
- \*Physical properties are typical values and not specifications**

# MIXING AND APPLICATION INSTRUCTIONS

(CPI 100% EPOXY+UV)

**PRODUCT STORAGE:** Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degree F. Low temperatures or temperature fluctuations may cause crystallization.

1.) **SURFACE PREPARATION:** We recommend using our CPI Super Prep diluted 1:1 with water to remove any laitance and create an open porous surface. If your surface is slick or tightly troweled we recommend mechanical scarification such as grinding to prepare you surface properly and achieve the porous surface required for this application. All dirt, foreign contaminants, oil and laitance must be removed to assure a trouble free bond to the substrate. A Concrete Slab Moisture Test should be preformed to determine if the concrete is dry and suitable for application. This test is also useful to determine if any hydrostatic pressure problems exist that may later cause de-bonding.

2.) **PRODUCT MIXING:** This product has a mix ratio of 2 parts A to 1 part B. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix with a slow speed mixing equipment such as a jiffy mixer until the material is thoroughly combined and streak free, mixing 3 minutes is recommended. Mix slowly but thoroughly to prevent adding air to product. 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.

3.) **PRIMING:** A suitable primer should be used before applying this product. See the first page of this technical data guide for primer information. If a primer is not used, more porous substrates may cause outgassing and possible surface defects.

4.) **PRODUCT APPLICATION:** The mixed material can be applied by brush or shed free roller. However, the material can also be applied by a suitable 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. Relative humidity should be no more than 75% during application. If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating. This product can be used with various colored sand in a broadcast system or other suitable aggregate can be used in conjunction with this product to achieve a variety of color and application patterns. When using this product as a broadcast binder, always evaluate performance parameters with a test area which is dependent on aggregate size and thickness, prior to application. Contact your representative for details as necessary.

5.) **RECOAT OR TOPCOATING:** If you opt to recoat or topcoat this product, you must first be sure that the original coating has cured (refer to cure schedule on the first page). Always remember that colder temperatures will require more cure time for the product before you begin recoating or topcoating. 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. Be sure that your surface is free of all dust, dirt and contaminates before beginning the next coat. Many epoxy coatings and urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product.

6.) **CLEANUP:** Use xylol.

**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. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

## Care and Maintenance

Periodically inspect surfaces for wear or damage. All concrete sealers will eventually exhibit the effects of wear and traffic. For maximum coating life and performance, wipe up all chemical solvent or petroleum spills as soon as possible. Remove abrasive debris by sweeping or vacuuming. Periodic washing with a pH 7 (neutral) cleaner will help maintain surface luster. Some cleaners may affect the color or finish of your floors. If you are unsure of your cleaner type, test in a small area in the method chosen. If no ill effects are noted you should be able to continue to clean with the product and process tested. DO NOT USE solvent or acid based cleaning materials for general cleaning. DO NOT USE cleaners such as Pine Sol, Bleach or Swiffer Wet Jet. Steam mops should never be used on stained and sealed concrete as they may cause moisture to be trapped in the sealer and cause damage.

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

*This product is intended for use by trained professionals, experienced and trained in the use of these products. 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. Any use or application other than recommended herein is the sole responsibility of the user. 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.***

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