CPI High Performance Epoxy (Solvent Based Epoxy Coating)

PRODUCT DESCRIPTION:
CPI High Performance Epoxy is a two component solvent based epoxy coating that exhibits excellent characteristics for abrasion resistance, chemical resistance, and substrate penetration.

This product is suitable as a primer for high build coatings and urethane or as a stand-alone coating.
RECOMMENDED FOR: Recommended for priming or coating concrete, wood or steel. This product can withstand exposure to many common solvents and chemicals.

SOLIDS BY WEIGHT: Mixed = 57% (+/- 2%)
SOLIDS BY VOLUME: Mixed = 52% (+/- 2%)
VOLATILE ORGANIC CONTENT: Less than 418 g/l
STANDARD COLORS: Clear. The clear product is not suitable over other colored coatings.
RECOMMENDED FILM THICKNESS:
5-6 mils per coat wet thickness (yields 3 mils dry)
COVERAGE PER GALLON: 267 to 320 square feet @ 5-6 mils wet thickness.
PACKAGING INFORMATION
2 gallon and 10 gallon kits (volume approx.)
2 gal kit= (1 gal part A @ 8.5#/gal and 1 gal part B @ 7.6#/gal for clear) (weights approx.)
MIX RATIO: 1 part A to 1 part B by volume
SHELF LIFE: 1 year in unopened containers
FINISH CHARACTERISTICS: Gloss (80 at 60 degrees)
ABRASION RESISTANCE:
Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 28.1 mg loss
IMPACT RESISTANCE:
Gardner Impact, direct = 50 in. lb. (passed)
FLEXIBILITY: No cracks on a 1/8" mandrel
ADHESION: 380 psi @ elcometer (Concrete failure, no delamination)
VISCOSITY: Mixed = 275-500 cps (typical)
DOT CLASSIFICATIONS:
Part A "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"
Part B "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"
PRIMER: None required
TOPCOAT: Optional, many products are suitable as topcoats including multiple coats of this product. For added chemical resistance, color stability, or UV stability, topcoat with a suitable aliphatic urethane.

CURE SCHEDULE (70 Degrees F)	
Pot Life (2 Gallon)	3-5 hours
Tack Free (Dry to Touch)	1-3 hours
Recoat or Topcoat	3-6 hours
Light Foot Traffic	10-16 hours
Full Cure (Heavy Traffic)	2-7 days
Application Temperature: 50-90°F	

CHEMICAL RESISTANCE	
Acetic Acid 5%	A
Xylene	B
MEK	A
Gasoline	B
10% Sodium Hydroxide	E
50% Sodium Hydroxide	D
10% Sulfuric	C
10% Hydrochloric Acid	C
20% Nitric Acid	A
Ethylene Glycol	C
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.	

LIMITATIONS:
Product color or gloss may be affected by high humidity, temperatures, chemical exposure, UV light exposure or exposure to lighting such as sodium vapor lights. Product is not UV light stable.
For best results use a 3/8" nap roller.
Slab on grade requires moisture barrier.
Substrate temperature must be 5°F above dew point.
All new concrete must be cured for at least 30 days.
Product color will vary from batch to batch.
Physical properties are typical values and not specifications.
Light or bright colors (white, safety yellow, etc.) may require multiple coats or a topcoat to achieve a satisfactory hide, depending on the substrate.
See reverse side for application instructions.
See reverse side for limitations of our liability and warranty.

CONCRETE PERCEPTIONS INC

High Performance Epoxy

MIXING AND APPLICATION INSTRUCTIONS: CPI High Performance Epoxy Coating

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 degrees F.

SURFACE PREPARATION: Surface preparation will vary according to the type of complete system to be applied. A proper surface profile should be achieved by mechanical grinding with 6 grit metal bond diamonds or shotblasting. All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A moisture meter test should be made to determine that the concrete is dry; this can also 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 product delamination.

PRODUCT MIXING: This product has a one to one mix ratio by volume- merely mix equal volumes such as 1 gallon of part A to 1 gallon of Part B. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. If temperatures are below 60°F., let the material induct for five to ten minutes to help reduce the possibility of developing an epoxy blush.

PRODUCT APPLICATION: The mixed material can be applied by brush or roller. Maintain temperatures within the recommended ranges during the application and curing process. If product is to be applied without the use of a topcoat, then it is best to use the material from the same batch for the entire job to prevent color or gloss differences.

RECOAT OR TOPCOATING: If you opt to re-coat or topcoat this product, you must first be sure that all of the solvents have evaporated from the coating during the curing process. The information on the front side are reliable guidelines to follow. However, it is best to test the coating before re-coating or top coating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started. Always remember that colder temperatures will require more cure time for the product before re-coating or top coating can commence. Before re-coating or top coating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film, or deglossing). If a blush is present, it can be removed with any standard type detergent cleaner prior to topcoating or recoating. High traffic, extended chemical or UV exposure may require the installation of the Super High Performance UV as top coat.

CLEANUP: Use xylol

FLOOR CLEANING: Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. 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. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.