



Specialty Flooring Products

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TECHNICAL DATA: CRYSTAL CLEAR EPOXY LV

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NC-Crystal Clear Epoxy Binder LV(NC-CCEBLV) is a two component 93% solids high performance epoxy coating that can be used either as a clear top coat or filled with paint chips, marble chips, or quartz aggregate mixtures.

RECOMMENDED USES

Recommended for laboratories, kitchens, restrooms, and other areas where either a high build clear product is needed or where a decorative floor is desired.

GENERAL PRODUCT DATA

SOLIDS BY WEIGHT:

93%

SOLIDS BY VOLUME:

93%

VOLATILE ORGANIC CONTENT:

Zero pounds per gallon

RECOMMENDED FILM THICKNESS:

8- 16 mils

HARDNESS:

Shore D = >81

PACKAGING INFORMATION

3 gallon kits (2.95 gallons net approximately)

15 gallon kits (14.75 gallons net approximately)

SHELF LIFE:

1 year in unopened containers

STANDARD COLORS:

Clear – gardner color 1-2

VISCOSITY:

Mixed = 700-1000 cps (typical)

ABRASION RESISTANCE:

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

FINISH CHARACTERISTICS:

Gloss (60 to 90 @ 60 degrees @ Erichsen glossmeter)

IMPACT RESISTANCE:

Gardner Impact, direct = 50 in.lb. (passed)

COVERAGE PER GALLON:

6-12 mils / 133-267 sqft per gallon @ 6-12 mils

FLEXURAL STRENGTH:

7,400 psi @ ASTM D790

ADHESION:

350 psi @ elcometer (concrete failure, no delamination)

MIX RATIO:

9.0 pounds part A (.99 gallons) to 4.15 pounds part B (.49 gallons) (volumes approx.)

COMPRESSIVE STRENGTH:

11,200 psi @ ASTM D695

ULTIMATE ELONGATION:

4.1%

TENSILE STRENGTH:

7,600 psi @ ASTM D638

DOT CLASSIFICATIONS:

Part A “not regulated”

Part B “CORROSIVE LIQUID N.O.S., 8, UN11760, PGIII”

CURE SCHEDULE (70°):

Pot life – 1 1/2gallon volume	20-30 minutes
Tack free (dry to touch).....	6-8 hours
Recoat or topcoat.....	10-16 hours
Light foot traffic.....	14-18 hours
Full cure (heavy traffic).....	2-7 days

APPLICATION TEMPERATURE:

55-90 degrees F

CHEMICAL RESISTANCE:

REAGENT	RATING
butanol	3
xylene	3
1, 1, 1 trichloroethane	2
MEK	1
methanol	1
ethyl alcohol	3
skydrol	2
10% sodium hydroxide	5
50% sodium hydroxide	4
10% sulfuric acid	3
70% sulfuric acid	1
10% HCl (aq)	3
5% acetic acid	2

Rating key: 1 - not recommended, 2 - 2 hour term splash spill, 3 - 8 hour term splash spill, 4 - 72 hour immersion, 5 - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

PRIMER:

Recommended : Water Based Epoxy Primer

TOPCOAT:

Optional – NC aliphatic urethanes or successive coats or NC-Crystal Clear Epoxy 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.

*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 squeegee and or a ¼” nap roller.

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

*Apply a suitable 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.

CRYSTAL CLEAR EPOXY LV

MIXING AND APPLICATION INSTRUCTIONS

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.

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 disbanding. For applications directly over concrete, Testing should be performed to confirm a moisture vapor emission rate below 3 lb/24hr/1000 ft² per ASTM F1869.

PRODUCT MIXING: This product has a mix ratio of 9.0# part A to 4.15# 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 well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and 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. If a primer is not used, more porous substrates may cause outgassing and possible surface defects.

PRODUCT APPLICATION: The mixed material can be applied by brush or roller. However, the material can also be applied by a suitable serrated

PRODUCT APPLICATION (CONT'D): 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. 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. Contact your representative for details as necessary.

RECOAT OR TOPCOATING: If you opt to recoat or 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 as well as multiple coats of this product.

CLEANUP: Use xylol

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.

Warranty

Since no control is exercised over product use, The Nikka Corporation warrants that its products are manufactured free from defect and are consistent and within manufacturing tolerances on our data sheets. No other oral or written representation or statement of any kind, expressed or implied, now or hereafter made is authorized or warranted by The Nikka Corporation. This product is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular use. The Nikka Corporation shall have no liability for incidental or consequential damage, direct or indirect. Our liability is limited to price of or replacement of our product at our option. By accepting delivery of our product means that you have accepted the terms of The Nikka Corporation Warranty.

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