



Specialty Flooring Products

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TECHNICAL DATA: Epo-gel

EPO-GEL

NC- Epo-gel (NC-EG) is a two component fast set epoxy gel designed for repair on horizontal surfaces. This product is easy to mix and use and has the consistency of petroleum jelly.

RECOMMENDED USES

Recommended for repairing cracks and defects in concrete. The fast set time makes this product an ideal quick repair gel.

GENERAL PRODUCT DATA

SOLIDS BY WEIGHT:

100%

SOLIDS BY VOLUME:

100%

VOLATILE ORGANIC CONTENT:

Zero pounds per gallon

COLORS AVAILABLE:

Amber clear- semi-transparent

RECOMMENDED FILM THICKNESS:

1/8" cracks or thin build repairs

COVERAGE PER GALLON:

0.13 cubic feet or 1,228 lineal feet @ 1/8"x 1/8"

PACKAGING INFORMATION

2 gallon kit (17.0 pounds net approximately)

10 gallon kits (85.0 pounds net approximately)

HEAT DEFLECTION TEMPERATURE:

47 degrees C (116.5 degrees F)

SHELF LIFE:

1 year in unopened container

MIX RATIO:

1 gallon part A (9.0 pounds) to 1 gallon part B (8.0 pounds) (volumes and weights approximate)

FLEXURAL STRENGTH:

8,590 psi @ ASTM D790

COMPRESSIVE STRENGTH:

6,110 psi @ ASTM D695- 1/2" x 1/2" bars

TENSILE STRENGTH:

4,980 psi @ ASTM D638

ULTIMATE ELONGATION:

14.1%

IMPACT RESISTANCE:

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

ADHESION:

360 psi @ elcometer (concrete failure, no delamination)

ABRASION RESISTANCE:

Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 52 mg loss

HARDNESS:

Shore D= 35

VISCOSITY:

Mixed= 3,000,000 cps (typical)

DOT CLASSIFICATIONS:

Part A "not regulated"

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

CURE SCHEDULE (70°):

Pot life – 2 gallon volume	7-10 minutes
Tack free (dry to touch).....	1-3 hours
Recoat or topcoat.....	10-12 hours
Light foot traffic.....	11-13 hours
Full cure (heavy traffic).....	2-7 days

APPLICATION TEMPERATURE:

50-90 degrees F. with relative humidity below 85% for best results

CHEMICAL RESISTANCE:

REAGENT	RATING
butanol	3
xylene	2
1,1,1 trichloroethane	2
mek	1
methanol	1
ethyl alcohol	1
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	1

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:

None necessary

TOPCOAT:

Optional: This product can be overcoated with many suitable epoxy and urethane products.

LIMITATIONS:

- *Color stability may be affected by environmental conditions such as high humidity, temperatures, chemical exposure or exposure to certain types of lighting such as sodium vapor lights.
- *Colors or clarity may vary from batch to batch.
- *This product is not UV color stable and may discolor when exposed to UV light sources.
- *Substrate temperature must be 5°F above dew point.
- *This product has a very short pot life.
- *Do not topcoat over this product until it has sufficiently hardened.
- *All new concrete must be cured for at least 30 days prior to application.
- *See reverse side for application instructions.
- *Physical properties are typical values and not specifications.
- *See reverse side for limitations or our liability and warranty.

EPO-GEL

MIXING AND APPLICATION INSTRUCTIONS

PRODUCT STORAGE: Store product at normal room temperature before using. Continuous storage should be between 60 and 90°F. Low temperatures or temperature fluctuations may cause crystallization.

SURFACE PREPARATION: 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 then 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 repair work. This product is intended for hairline cracks and other fractures up to 1/8 inch in width. Remove all unsound concrete from within the crack to be repaired and thoroughly vacuum all debris and dust from within the crack opening. 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 1 part A to 1 part B by volume. To mix, simply measure out equal volumes of the material and mix them together thoroughly with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. Mix only an amount of material that can be used in a short period of time. A two gallon volume of material will have a usable pot life of about 7-10 minutes. Smaller volumes will be easier to work with as well as adding more time to the usable pot life. Improper or insufficient mixing may result in product failure.

PRIMING: No priming is necessary.

PRODUCT APPLICATION: The mixed material can be applied by marginal trowel, putty knife, or any other suitable equipment.

RECOAT OR TOPCOATING: When placing a topcoat over a repaired crack, allow the material to cure before installing the coating. If excessive amounts are spread well beyond the crack repair or in areas where surface repairs have been implemented, it is best to check the cured areas for any possible amine blush (a whitish, greasy film or deglossing) prior to coating over this material. If a blush is present, it must be removed prior to topcoating or recoating. A standard type detergent cleaner can be used to remove any blush. Many epoxy coatings and urethanes are compatible for use over this product as well as multiple coats of this product.

CLEANUP: Use xylol.

FLOOR CLEANING: Caution! Some cleaners may affect the color of the fast gel 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.

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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