Oil Tolerant Epoxy Coating

NC- Oil Tolerant Epoxy Coating (NC-OTEC) is a two component solvent based epoxy coating that exhibits excellent characteristics for coating over petroleum based oil contaminated concrete. This product allows superior substrate penetration which results in excellent adhesion and is an ideal primer for the oil contaminated concrete substrate.

Recommended Uses

This product is intended for petroleum oil contaminated substrates. This product is not recommended for use over vegetable oil, animal fat or synthetic oil contaminated concrete. This product is not designed to be used as a stand alone coating and must be coated with a suitable epoxy .

General Product Data

SOLIDS BY WEIGHT:
Mixed= 71.5% (+,- 2%)
SOLIDS BY VOLUME:
Mixed= 63% (+,- 2%)
VOLATILE ORGANIC CONTENT:
Part A= 2.5 pounds per gallon
Part B= 2.75 pounds per gallon
RECOMMENDED FILM THICKNESS:
5-8 mils per coat (wet thickness)
3-5 mils dry
COVERAGE PER GALLON:
200-320 sqft @ 5-8 mils wet thickness
COLORS AVAILABLE:
Black only
SHELF LIFE:
1 year
PACKAGING INFORMATION
2 gallon and 10 gallon kits (volumes approx.),
2 gal kit= 1 gallon part A (10.05#/gal) and 1 gallon part B (8.6#/gal) (weights approximate)

FINISH CHARACTERISTICS:
Satin gloss (40-60 at 60 degrees @ Erichsen glossmeter)
IMPACT RESISTANCE:
Gardner Impact, direct = 50 in.lb. (passed)
ABRASION RESISTANCE:
Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 37.0 mg loss
MIX RATIO:
1 part A to 1 part B by volume

ADHESION:
450 psi @ elcometer (concrete failure, no delamination)
FLEXIBILITY:
No cracks on a 1/8" mandrel
VISCOSITY:
Mixed = 150-300 cps (typical)
DOT CLASSIFICATIONS:
Part A "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"
Part B "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"

CURE SCHEDULE (70°):

Pot life – 2 gallon volume ……..…..……. 2-4 hours
Tack free (dry to touch)……..……2-4 hours
Recoat or topcoat....…… …… 4-8 hours

Light foot traffic...……...……...…16-24 hours
Full cure (heavy traffic)... ……..... 2-7 days

APPLICATION TEMPERATURE:

55-90 degrees F

CHEMICAL RESISTANCE:

REAGENT	RATING
acetic acid 5%	**1**
xylene	**2**
toluene	**2**
1,1,1 trichloroethane	**1**
MEK	**1**
gasoline	**2**
10% sodium hydroxide	**5**
50% sodium hydroxide	**4**
10% sulfuric	**3**
10% hydrochloric acid	**3**
20% nitric acid	**1**
ethylene glycol	**3**

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 required

TOPCOAT:

Optional- We recommend one (1) coat NC- Water Based Epoxy Primer, followed by two (2) coats NC- Moisture Cure Urethane in same color or many other products suitable top coat. Consult your representative for other options.

LIMITATIONS:

*For best results use a high quality 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 prior to application.
*Color may vary slightly from batch to batch.
*Always apply a test patch of the entire system prior to using to determine the suitability and adhesion characteristics.
*See reverse side for application instructions.
*Physical properties are typical values and not specifications.
*See reverse side for limitations of our liability and warranty

Oil Tolerant Epoxy Coating
Mixing and Application Instructions

PRODUCT STORAGE: Store product at normal room temperature. Continuous storage should be between 60 and 90 degree F.

SURFACE PREPARATION: Surface preparation will vary according to the type of complete system to be applied. Make certain that the substrate where the Oil Tolerant epoxy coating is to be applied is clean, sound and free of all laitance, dirt, dust, oil, grease, or foreign contaminants. Make certain that the floor is completely dry before application. It is often undesirable to shot blast a petroleum contaminated concrete surface unless the applicator is prepared to steam and solvent clean the area. Shot blasting tends to open oil filled pores that will be detrimental to the application process. The method of cleaning an oil soaked floor is best determined at the job location. However, solvent cleaning, steam cleaning, and water emulsion cleaners can all be considered. 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.

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 streak free. Improper mixing may result in product failure.

PRODUCT APPLICATION: We recommend one coat of Our Oil tolerant epoxy coating followed by one coat of our Water Based Epoxy coating and then two additional coats of NC -Aliphatic Urethane in the same color as the water based Epoxy . Due to the vastly varying contamination parameters, it is recommended that the applicator both check the adhesion of this product to the substrate as well as a thorough evaluation of the proposed intermediate and topcoat selections. Petroleum based oils have a tendency to migrate upward through newly placed coatings and could cause disbonding if all preceding coats are not inspected prior to topcoating. Clean all previous coatings as necessary. THIS COATING SHOULD NOT BE USED UNTIL A REPRESENTATIVE SAMPLE PATCH HAS BEEN PLACED AND THOROUGHLY EVALUATED FOR SUITABILITY. Make certain that the floor temperature and air temperature is between 55 and 90 degrees Fahrenheit. Preferably, the relative humidity should be below 90%. This product should be applied by roller or brush at five to eight mil thickness when wet. Too thick of an application may result in product failure.

PRODUCT APPLICATION (CONT'D):

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.

CLEANUP: Use xylol

RECOAT OR TOPCOATING: After applying the Oil Tolerant epoxy primer and the coating has cured sufficiently, the applicator can then proceed with the Water Based Epoxy coating or Aliphatic Urethane , application. Allow sufficient time between all subsequent coatings; and remember, as temperatures become lower all products will require additional time to cure. Read the individual technical data sheets for each product before proceeding. If different topcoats are desired, contact your representative for application details before proceeding.

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.

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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