



Specialty Flooring Products

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TECHNICAL DATA: WATER BASED URETHANE

WATER BASED URETHANE SEALER

NC-Water Base Urethane Sealer (NC-WBUS) is a two component water based aliphatic urethane sealer that offers excellent abrasion resistance and clearness without the objectional solvent odors associated with other urethane products. This product has an extremely fast set time and a very long pot life.

RECOMMENDED USES

Recommended for coating concrete or masonry. Do not use in immersion service or constant chemical exposure areas.

GENERAL PRODUCT DATA

SOLIDS BY WEIGHT:

Mixed= 30% (+/-2%)

SOLIDS BY VOLUME:

Mixed= 24% (+/-2%)

VOLATILE ORGANIC CONTENT:

VOC = 0.87#/gallon

MIX RATIO:

One component product, simply stir before using

RECOMMENDED FILM THICKNESS / COVERAGE PER GALLON:

3-4 mils per coat wet thickness (yields 0.5-1 mils dry) / 401 to 534 sqft @ 3-4 mils wet thickness

COLORS AVAILABLE:

This product is available in clear only

SHELF LIFE:

1 year in unopened containers

PACKAGING INFORMATION

This product is available in 1 gallon and 5 gallon kits (volumes approximate)

FINISH CHARACTERISTICS:

Gloss (>80 at 60 degrees @ Erichsen glossmeter)

IMPACT RESISTANCE:

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

ELONGATION AT BREAK:

120%

ADHESION:

345 psi @ elcometer (concrete failure, no delamination)

ABRASION RESISTANCE:

Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 10 mg loss

FLEXIBILITY:

No cracks on a 1/8" mandrel

VISCOSITY:

Less than 100 cps (typical)

DOT CLASSIFICATIONS:

Not regulated

CURE SCHEDULE (70°):

Pot life – 1 gallon volume	24 hours
Tack free (dry to touch).....	10-20 minutes
Recoat or topcoat.....	1-2 hours
Light foot traffic.....	2-4 hours
Full cure (heavy traffic).....	2-3 days

APPLICATION TEMPERATURE:

55-100 degrees F with relative humidity below 85%

CHEMICAL RESISTANCE:

REAGENT	RATING
xylene	1
mek	1
gasoline	1
10% sodium hydroxide	2
50% sodium hydroxide	2
acetic acid 5%	1
10% sulfuric	2
10% hydrochloric acid	2
20% nitric acid	1
ethylene glycol	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:

None required.

TOPCOAT:

None required. Multiple coats of this product are compatible.

LIMITATIONS:

- *Clarity of color or gloss may be affected by high humidity, low temperatures, or chemical exposure. Lighting such as sodium vapor lights.
- *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
- *Do not apply this product to areas where there is standing water, damp concrete can be coated.
- *Additional coats should be applied before a twenty four hour time period has elapsed, otherwise, it may be necessary to slightly roughen and degloss the previous coat.
- *Too thick of an application may result in solvent entrapment and subsequent product failure.
- *Physical properties are typical values and not specifications
- *See reverse side for application instructions.
- *See reverse side for limitations of our liability and warranty.

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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. Keep from freezing.

SURFACE PREPARATION: Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants 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' X 4' 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 does not show signs of eventual hydrostatic pressure problems that may later cause disbanding. However, this product can be applied to a damp floor as long as there are not standing puddles.

PRODUCT MIXING: This product should be stirred well before using. Mix with slow speed mixing equipment to avoid introducing air into the material.

PRODUCT APPLICATION: The material can be applied by brush or roller. Maintain temperatures within the recommended ranges during the application and curing process.

RECOAT OR TOPCOATING: If you opt to recoat this product, you must first be sure that all of the solvents and water 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 recoating or topcoating. 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 can be started. Always remember that colder temperatures will require more cure time for the product before recoating can commence. We do not recommend any coatings be placed over this product except multiple coats of this product itself. If previous coats have a blush, clean with a standard type detergent cleaner.

CLEANUP: Use PM solvent

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.

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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