



# Specialty Flooring Products

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## TECHNICAL DATA: Water Repellent and Seal

### Water Repellent and Sealer

NC-Water Repellent and Sealer (NC-WRS) is a one component water based sodium methyl silicate solution designed to impart water repellency to a wide variety of surfaces. The silicate reacts with moisture and carbon dioxide in the air to form an insoluble water resistant resin.

#### Recommended Uses

Recommended for coating concrete or masonry. Helps to harden dust proof and waterproof concrete.

### General Product Data

**SOLIDS BY WEIGHT:**

N/A

**SOLIDS BY VOLUME:**

N/A

**VOLATILE ORGANIC CONTENT:**

VOC = none

**MIX RATIO:**

One component product, simply stir before using

**RECOMMENDED FILM THICKNESS / COVERAGE PER GALLON:**

Saturate slab without puddling 100-400sqft /gallon

**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:**

Does not change concrete appearance

**IMPACT RESISTANCE:**

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

**ELONGATION AT BREAK:**

105%

**ADHESION:**

Product becomes an integral part of the substrate

**ABRASION RESISTANCE:**

Will increase abrasion resistance

**FLEXIBILITY:**

N/A

**VISCOSITY:**

Less than 25 cps (typical)

**DOT CLASSIFICATIONS:**

Corrosive liquid N.O.S. 8UN1760, PGIII

**CURE SCHEDULE (70°):**

Pot life – 1 gallon volume .....	24 hours
Tack free (dry to touch).....	5-8 minutes
Recoat or topcoat.....	5-8 hours
Light foot traffic.....	24 hours
Full cure (heavy traffic).....	24 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	1
50% sodium hydroxide	1
acetic acid 5%	1
10% sulfuric	1
10% hydrochloric acid	1
20% nitric acid	1
ethylene glycol	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 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 pump sprayer
- \*Slab on grade requires moisture barrier
- \*Substrate temperature must be 5° F above dew point
- \*can be applied over green concrete
- \*Do not apply this product to areas where there is standing water, damp concrete can be coated.
- \*Additional coats can be applied
- \*Physical properties are typical values and not specifications
- \*See reverse side for application instructions.
- \*See reverse side for limitations of our liability and warranty.

# Water Repellent and Sealer

**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. Clean surface thoroughly. 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 sprayer 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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