

## 903CB TECHNICAL DATA (WB Cement Urethane Cove Base)

**PRODUCT DESCRIPTION:** NP903CB is a bio-based three or four component (dependent on color) trowel applied urethane Cove Base kit that has outstanding wear performance and can withstand higher heat exposures than typical unmodified urethanes. The product can withstand thermal shock, impact, abrasion and chemical exposures. The product is resistant to fungi growth per the industry standard ASTM G-21.

**RECOMMENDED FOR:** Designed as a heavy duty coving mortar for creating a cove base, cant cove and other vertical applications for use in commercial kitchens, restrooms and locker rooms, food prep areas, and food and beverage facilities.

### BENEFITS:

Seamless hygienic finish with no grout lines

Low odor, fast installation and fast cure.

Thermal shock and chemical resistance.

### SOLIDS BY WEIGHT:

Approximately 98% solids (liquids mixed with aggregate)

### VOLATILE ORGANIC CONTENT:

5 grams per liter

### STANDARD COLORS:

Gray, tan and red. (Special colors available with minimum quantities.)

### FILM THICKNESS:

Final film thickness varies, dependent on concrete conditions and system used. Typical finished installation thickness is 3/16" for a vertical cove base.

### COVERAGE PER KIT:

The standard Unit typically yields 35 ln/ft/unit for a 3/16" x 4" cove base.

### PACKAGING INFORMATION / MIX RATIO:

Urethane Cove Base: Unit (2.5# part A in a container, not full + 2.5# part B in a container not full + 1 bags blended CB aggregate at 28.5# (weights approximate). Add 1 bag of colored powder pigment in the color desired, typically 0.5# per bag

### SHELF LIFE:

6 months for unopened and properly stored containers.

### FINISH CHARACTERISTICS:

Slightly textured finish

### COMPRESSIVE STRENGTH:

5,800 psi @ ASTM C-579

### TENSILE STRENGTH:

900 psi @ ASTM C-307

### BOND STRENGTH:

100% concrete failure @ ASTM D-4541

### FLEXURAL STRENGTH:

1,900 psi @ ASTM C-580

### HARDNESS:

Shore D = 80 typical

### IMPACT RESISTANCE:

160 in. lbs @ ASTM D-4226

### RESISTANT TO FUNGI GROWTH:

Passes rating of 1 @ ASTM G-21

### VISCOSITY

When mixed, it forms a trowelable paste.

### DOT CLASSIFICATIONS:

Not Regulated

### HEAT RESISTANCE:

Can withstand up to 250F degrees

**PRIMER:** Prime are where cove base will be installed with the NP903TC top coat material.

**TOPCOAT:** Optional

### CURE SCHEDULE (70 Degrees F)

|                                                                            |            |
|----------------------------------------------------------------------------|------------|
| Pot Life                                                                   | 15 minutes |
| Light Foot Traffic                                                         | 12 hours   |
| Heavy Foot Traffic                                                         | 24 hours   |
| Full Cure                                                                  | 7 days     |
| Application Temperature: 40-85 degrees F. with relative humidity below 85% |            |

### CHEMICAL RESISTANCE TESTING

Spot testing per ASTM D1308 for Mustard, Ketchup, Lactic Acid, Vinegar, and Lemon Juice were performed and no physical damage to the exposed surface was observed. In 24 hour immersion testing, the following results were observed.

| CHEMICAL EXPOSURE      | PERFORMANCE |
|------------------------|-------------|
| 10% acetic acid        | Passed      |
| 30% nitric             | Passed      |
| Sodium hydroxide 50%   | Passed      |
| Sulfuric hydroxide 30% | Passed      |
| Xylene                 | Passed      |

### LIMITATIONS:

Color stability or gloss may be affected by high humidity, low temperature, chemical exposure or lighting such as sodium vapor lights. Product is not color or UV stable.

Prime the surface before applying. Do not install on wet concrete.

Confirm product performance in specific chemical environment prior to use.

Proper mixing is important for product performance.

High heat exposure may discolor the surface.

Colors may vary from batch to batch. Therefore, use only product from the same batches for an entire job.

Always apply a suitable test area to evaluate the product performance and suitability prior to undertaking the entire project. Samples are available upon request.

Mixtures of chemicals and applications with exposures to chemicals at elevated temperatures should be thoroughly evaluated before applying.

Substrate temperature must be 5°F above dew point.

All new concrete must be cured for at least 15 days prior to application.

Product is not color stable, expect color change over time.

See reverse side for application instructions.

Physical properties are typical values and not specifications.

See reverse side for limitations of our liability and warranty.

## MIXING AND APPLICATION INSTRUCTIONS: NP903CB Water Based Cement Urethane Cove Base

**PRODUCT STORAGE:** Store product in an area as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degrees F. Low temperatures may cause product crystallization. Do Not Freeze.

**SURFACE PREPARATION:** The most suitable surface preparation would be a 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. After surface preparation and before application, repair all bug holes and grind down any projections. Repair all cracks or concrete Imperfections. Surface should have a minimum tensile strength of at least 300 psi @ ASTM D-4541. Surface profile should be CSP 5 or greater per International Concrete Repair Institute guidelines.

**PRODUCT MIXING:** This product is packaged in pre-measured kits. Use the entire kit - do not modify. . It is very important to utilize a proper mixer and paddle to ensure a complete mix and to reduce the risk of introducing excessive air into the mixture. We recommend the use of a MAN-U-FAB M-61 (1 HP) mixer with a 10 gallon pail and TR4-10 mixing arm (www.mixall.com). With the mixer running, pour the part A into the mixing pail. Add the powder pigment bag to the part A liquid and mix for about 15 seconds. Add the part B liquids and mix again for another 15 seconds. Gradually, add all of the contents of the supplied filler part C into the liquid mixture and blend thoroughly until all particles are wetted out, normally about two minutes. Improper mixing may result in product failure. Make sure to apply the product immediately after it is completely mixed.

**PRIMING:** Prime area where the cove base will be installed with the NP903TC topcoat. Apply the cove base material directly to the wet (uncured) topcoat..

**PRODUCT APPLICATION:** Product should only be applied by trained persons experienced in polyurethane concrete flooring applications. To prevent lifting or delaminations, keyways (minimum 5/16" wide x 5/16" deep) must be cut at all terminations, joints, columns and doorways. It is very important to utilize a proper mixer and paddle to ensure a complete mix and to reduce the risk of introducing excessive air into the mixture. Apply the mixed material using a marginal trowel, cove base trowel or any other suitable application equipment at a minimum 1/8 inch thickness. Do not over trowel the material as this may cause isolated blisters to form. Maintain temperatures within the recommended ranges during the application and curing process. Lay abutting edges within 10 minutes to ensure a clean edge. A "wet edge" installation is imperative during large applications to avoid lines and ridges in the finished cove base.

**RECOAT OR TOPCOATING:** Topcoats are optional dependent on desired results. In some areas, a suitable novolac or other types of coatings can be used, depending on specific requirements.

**CLEANUP:** For cleaning any application, equipment, water can be used. The urethane component container is best cleaned with a suitable 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. Keep surface clean and dry.

### **NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY**

*We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. **NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT.** We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may **CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.***

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