

## NP903SL TECHNICAL DATA (Urethane Slurry)

**PRODUCT DESCRIPTION:** NP903SL is a bio-based three or four component (dependent on color) urethane slurry that has outstanding wear performance and can withstand higher heat exposures than typical unmodified urethanes. The product has good thermal shock capabilities and is a good choice for hot wash down areas. The product is resistant to MVT and withstands moderate thermal shock, impact, abrasion and chemical exposures. **RECOMMENDED FOR:** Resurfacing areas where a durable shock resistant surface is needed such as 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 97% 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 thicknesses vary from 1/8" to 3/16" dependent on broadcast aggregate and topcoats.

### COVERAGE PER KIT:

The standard kit (approximately 0.39 cu. Ft.) typically yields 37-46 square feet per kit at approximately 1/8".

### PACKAGING INFORMATION / MIX RATIO:

Urethane Cement: (7.25# part A in a gallon container, not full + 7.25# part B in a gallon container not full + 1 bags blended aggregate at 29# and 1# bag of dry pigment (weights approximate)

**SHELF LIFE:** 6 months for unopened and properly stored containers.

### FINISH CHARACTERISTICS:

Slightly textured rough finish when broadcasted

**COMPRESSIVE STRENGTH:** 8,400 psi @ ASTM C-579

**TENSILE STRENGTH:** 1.050 psi @ ASTM C-307

### BOND STRENGTH:

100% concrete failure @ ASTM D-4541

**FLEXURAL STRENGTH:** 2,700 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 pourable slurry.

**DOT CLASSIFICATIONS:** Not Regulated

**HEAT RESISTANCE:** Can withstand up to 200F degrees

**PRIMER:** None normally required

**TOPCOAT:** Optional

### CURE SCHEDULE (77 Degrees F)

Pot Life (0.25 cu. Ft. mix)	15 minutes
Light Foot Traffic	12 hours
Heavy Foot Traffic	24 hours
Full Cure	7 days
Application Temperature: 45-85 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 Acid 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.

Do not install on wet concrete.

Floors should be sloped to drain to prevent standing water or chemicals and spills should be removed as soon as possible to prevent a slipping hazard.

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.

Moisture vapor transmission should be less than 12 pounds or less per 1,000 sq. ft. over a 24 hour period as per ASTM E1907. See reverse side for application instructions.

Physical properties are typical values and not specifications. See reverse side for limitations of our liability and warranty.

## NP253 TECHNICAL DATA (Acid/Chemical Resistant Colored Novolac Epoxy Seal)

### PRODUCT DESCRIPTION:

NP253 is a two component colored high solids novolac epoxy coating designed for application where splash and spills of acids, chemicals, and solvents occur.

**RECOMMENDED FOR:** Recommended for a high build topcoat for traffic areas, chemical troughs and curbs as well as tanks and chemical spill areas for cement masonry or brick.

**SOLIDS BY WEIGHT:** 96% (+, - 1%)

**SOLIDS BY VOLUME:** 94% (+, - 1%)

**VOLATILE ORGANIC CONTENT:** Less than 44 g/L

**STANDARD COLORS:** Light gray, Medium Gray, and Tile Red

**RECOMMENDED FILM THICKNESS:** 16-18 mils

### COVERAGE PER GALLON:

90-100 square feet per gallon @ 16-18 mils

### PACKAGING INFORMATION:

3 gallon kit (volume approximate)

15 gallon kits (volume approximate)

**MIX RATIO:** 10.15 pounds (1 gallon) part A to 4.2 pounds (.50 gallons) part B (volumes approx.)

**SHELF LIFE:** 1 year in unopened containers

**FINISH CHARACTERISTICS:** Gloss (>40 at 60 degrees @ glossmeter)

**FLEXURAL STRENGTH:** 9,610 psi @ ASTM D790-1/2"X1/2" bars span 4"

**COMPRESSIVE STRENGTH:** 9,900 psi @ ASTM D695

**TENSILE STRENGTH:** 6,680 psi @ ASTM D638

### ADHESION:

425 psi @ elcometer (concrete failure, no delamination)

**ULTIMATE ELONGATION:** 4.7%

**HARDNESS:** Shore D = 88

### GARDNER VARIABLE IMPACTOR:

50 inch pounds direct – passed

**ABRASION RESISTANCE:** Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 20 mg loss

**VISCOSITY:** Mixed = 2200-2700 cps (typical)

### DOT CLASSIFICATIONS:

Part A "not regulated"

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

### HEAT DEFLECTION TEMP:

115.5 degrees F, ASTM D648

**PRIMER:** Recommended NP257

**TOPCOAT:** None recommended

### CURE SCHEDULE (70 Degrees F)

Pot Life (1 1/2 Gallon)	25-35 minutes
Tack Free (Dry to Touch)	5-7 hours
Recoat or Topcoat	5-10 hours
Light Foot Traffic	10-18 hours
Full Cure (Heavy Traffic)	2-7 days
Application Temperature: 60-95 degrees F with relative humidity below 90%	

### CHEMICAL RESISTANCE

Xylene	D
1,1,1 trichloroethane	C
MEK	C
Methanol	C
Ethyl alcohol	C
Skydrol	C
10% Sodium Hydroxide	E
50% Sodium Hydroxide	E
10% Sulfuric Acid	E
70% Sulfuric Acid	C
10% HC1 (aq)	D
5% Acetic Acid	D
Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.	

### LIMITATIONS:

Color stability or gloss may be affected by environmental conditions such as high humidity, low temperature or chemical exposure.

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

Apply a suitable primer before using this product

This product is not UV color stable and exposure to lighting such as sodium vapor lights may cause discolorations.

Mixtures of chemicals and applications with exposures to chemicals at elevated temperatures should be thoroughly evaluated before applying coating. A test patch is recommended.

Product can develop surface irregularities in leveling in combination to some chemical contamination or substrate compositions.

Substrate temperature must be 5°F above dew point.

For best results, apply with a 1/4" nap roller.

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 limitation of our liability and warranty.