



# NSP SPECIALTY PRODUCTS

## Technical Data Sheet



Certified to  
NSF/ANSI 61

## NSP 120 High Performance Epoxy Coating NSF Certified

**Description:** NSP 120 is a 100% solids, high gloss epoxy coating certified by NSF to NSF/ANSI Std. 61 – Drinking Water System Components – Health Effects for use as a protective barrier on properly prepared steel and concrete storage tanks and pipes.

### Intended

#### Uses:

Certified Trade Designation:

Coatings – Tanks – Water Contact Size Restriction  $\geq$  1000 gallons

Coatings – Pipe – Water Contact Size Restriction  $\geq$  22" diameter

Potable Water Storage Tanks and Piping, Wastewater Treatment applications, pipe joint coating, maintenance repairs, and concrete/steel structures requiring Certification by NSF to NSF/ANSI Std. 61.

### Product

#### Features:

Full Service/Cure time of 2 days without force curing or specialized equipment

Ease of application – brush, roller or spray

Excellent chemical and abrasion resistance

Tenacious adhesion to properly prepared surfaces

### Physical

#### Data:

Type: Modified Epoxy Resin/Proprietary Blend Amine Adduct Hardener

Color: White, Sky Blue, Black, and Off-White, Medium Gray

Components: Two

Mixed Ratio: 2 Parts A (Resin): 1 Part B (Hardener) by volume

Volume Solids: 100% - VOC 0 lbs/gal

Pot Life @ 77F/25C: 30 minutes

Application Temperatures: 50-90F (10-32C)

Number of Coats: 2 – any combination of listed colors

Minimum Recoat Time @ 77F/25C: 12 hours

Maximum Recoat Time @ 77F/25C: 48 hours

Sag @ 77F/25C: 16 mils

Theoretical Coverage: 1604 sq/ft/gal/mil – Allow for appropriate loss

Maximum Field Use Dry Film Thickness (in mils): 16

Minimum Cure Time – Full Service: 2 Days/48 Hours

Packaging: Pre-portioned 3 Qt. Kit/ 3 Gal Kit/ 15 Gal Kit

### Limitations:

This product may not cure properly in temperatures below 50 F (10 C)

All epoxies will show chalking/yellowing on exterior exposures. Application of epoxy coatings in cool temperatures and high humidity can result in the formation of amine blush. Blush may appear as a milky, white, tacky residue on the surface of the cured coating and must be removed before the application of another coat. Intercoat adhesion problems may occur if blush is not removed.



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### Surface

**Preparation:** Steel – *Immersion Service:* SSPC-SP10 Near White Blast Cleaning with 3.0-mil profile  
*Non-Immersion Service:* SSPC-SP6 Commercial Blast Cleaning with 2.0 mil profile  
Concrete – Concrete must be properly cured for a minimum of 28 days before application of coating. Surface must be entirely free of oil, grease, dirt, detergent, surface water, laitance, curing compounds, coatings or other contaminants that may interfere with adhesion. The concrete must be abrasive blasted to provide an anchor pattern (similar to 60-80 grit sandpaper min.) for adhesion. Final prepared surface should be clean and rough. Consult SSPC-SP13 – Surface Preparation of Concrete.

### Mixing

**Instructions:** This is a two-component system. Prior to mixing, components A Resin and B Hardener should be at room temperature (60-75 F/16-24C). Pour Part B Hardener into Part A Resin. Mix for 3 minutes using a Jiffy mixer head and a mechanical drill. To ensure complete mixing, scrape sides and bottom of container and continue mixing for an additional 1 or 2 minutes. Do not mix more material than can be applied within the pot life. **DO NOT HAND MIX.**

**Application:** Air and surface temperature should be between 50-90F/10-32C. Do not begin application if air, substrate or material temperature is below 50 F/10C or expected to fall below 50F/10C within 12 hours of application. Do not begin application if dew point is within 5F/3C of the temperature. Variations in temperature can affect pot life and sag properties of this material. NSP-T1 Thinner will not clean hoses or equipment adequately.

### Method of

**Application:** Brush, Phenolic Core Roller, Airless Spray

### Recommended

**Equipment:** *Airless Spray*  
Pump - a minimum of 30:1 - preferred 45:1  
Tip Range - .023 to .027  
Hose - 3/8" I.D. if less than 50 ft. - greater than 50 ft. use 1/2" (3500 psi High Pressure Spray Hose)  
Pressure (in) 90 cfm minimum @100 psi  
Pressure at the tip - increase pressure slowly to 2000 psi and fine tune to achieve proper spray pattern. Check condition of fan at spray tip. During the first seconds of spraying, the material will often finger. Raise or lower pressure to adjust width. Periodically check pressure gauges while spraying. Knowing operating pressure will be useful in analyzing any changes to your spray pattern.  
Whip – 3'- 5' and 1/4" ID Hose  
Take care to prevent mixed material from setting up in hoses. For optimum results, keep hose as short as possible, out of direct sunlight or away from heat. Purge immediately after spraying with Acetone or Ketone solvent. Cured material must be mechanically removed.



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### Storage & Shelf Life:

Shelf life is 12 months from the date of manufacture when stored in unopened containers and under recommended conditions. Material should be stored in a dry area under cover at temperatures between 45-95F/7-35C. It is recommended that the coating components be kept inside at a minimum of 60F/16C for 24 hours prior to start of application. Keep away from heat, flame and ignition sources.

### Warning & Safety:

#### **FOR INDUSTRIAL USE ONLY – KEEP AWAY FROM CHILDREN**

Refer to Material Safety Data Sheet for NSP 120 Part A and B supplied with this product prior to application. MSDS may be obtained via web site at [www.nsp-specialty.com](http://www.nsp-specialty.com), fax 910-235-3902 or by calling 800-248-8907. Use only with adequate ventilation and avoid breathing mist or vapors. Prevent contact with skin and eyes with protective clothing/impervious gloves and goggles. Do not take internally. Wash thoroughly after handling.

### Disclaimer & Limited Warranty:

The information contained herein is intended to acquaint you with this product and is not intended to be exhaustive. This information is subject to modification from time to time without further notice. No agent, employee or representative of Seller has the authority to bind Seller to any oral affirmation, recommendation or representation of warranty unless contained in a written agreement signed by both Buyer and Seller. Seller expressly disclaims all other warranties, express or implied, including but not limited to any implied warranties of merchantability of fitness for a particular purpose or any other warranties relating to the condition of this product. Furthermore, Buyer acknowledges that it is familiar with and experienced in the use of industrial coating products and expressly assumes all responsibility resulting from or in any way connected with the possession, transportation, handling or use of this product, whether singly or in combination with other products. Seller's liability, with respect to any claim arising out of or relating to Buyer's purchase, possession or use of this product, is expressly limited to, at Seller's option, (i) replacement of the product, or (ii) return of the purchase price with transportation charges incurred by the Buyer, if material is proven defective. Any claim for defective product must be received in writing within one year from the date of shipment. Seller assumes no responsibility for incidental or consequential damages, or for any other damages related to any alleged nonconformity or defect in the product or to its purchase, possession or use.