



# NSP SPECIALTY PRODUCTS

## Technical Data Sheet

### NSP 114 Adhesive Binder and Saturant Resin

**Description:** NSP 114 is a 100% solids, two component Fluoropolymer Modified Advanced Aliphatic Polyamine epoxy coating which exhibits excellent adhesive properties to various substrates. This versatile formula can be ordered in two versions to suit your particular application needs – saturant resin (low viscosity) and vertical hang (medium viscosity) for vertical applications. Consult your NSP representative for recommendations.

#### Intended

##### Uses:

- Reinforce structures with fiberglass and carbon fiber
- Adhesive epoxy for laminate systems
- Repairing voids in concrete – vertical or horizontal
- Slurry Floor Systems with graded aggregates or pebbles
- Trowel down flooring systems
- Secondary containment
- Clarifiers
- Sump and Tank Pad Repairs

#### Product

##### Features:

- Exceptional wetting characteristics
- Environmentally sound
- High fill capacity
- 100% Solids, NO VOC, moderate viscosity
- Lenient pot life and working time
- Easy, convenient mixing ratio

#### Physical

##### Data:

- Type: Modified Fluoropolymer Advanced Aliphatic Polyamine
- Color: Creamy Translucent
- 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 (450g): 58 minutes
- Gel Time @ 77F/25C (150g): 87 minutes
- Induction: None
- Application Temperatures: 50-90F (10-32C)
- Maximum Recommended Service Temperature: Dry Air Temp 200F/93C – 24 hrs @77DegF
- Minimum Recoat Time @ 77F/25C: 8 hrs
- Maximum Recoat Time @ 77F/25C: 24 hrs
- Minimum Cure Time – Full Service @ 4 days at 77 DegF/ Maximum Resistance 7 days
- Thinner: Not Recommended
- Packaging: 15 Gallon Kits and 157.5 Gallon (3 Drum Set)



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**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.

**Surface Preparation:** Steel – Immersion Service: SSPC-SP5 White Blast Cleaning with 3.0-mil profile  
Non-Immersion Service: SSPC-SP6 Commercial Blast Cleaning with 3.0 mil profile  
New Concrete – ASTM D4258 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.  
Old Concrete - 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 HAND MIX. Begin application immediately – no induction time. DO NOT THIN.

**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. Clean up with MEK.

**Method of Application:** Airless or Conventional Spray, Phenolic Core Roller or Brush

**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. Do not let product freeze.



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#### **Warning & Safety:**

**FOR INDUSTRIAL USE ONLY – KEEP AWAY FROM CHILDREN – FLAMMABLE LIQUID**

Refer to Material Safety Data Sheet for NSP 114 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.