



NSP SPECIALTY PRODUCTS

Technical Data Sheet

NSP 114 Flexible Polymer

Description: NSP 114 is a 100% solids, two component Acrylic Monomer Modified Epoxy polymer designed to exhibit excellent adhesive and sealing properties on steel or concrete surfaces. The addition of acrylic monomer yields increased UV stability without the strong odor associated with MMA flooring systems. This flexible polymer can be used by itself as a clear coating or can be used as a decorative broadcast medium for colored quartz, flakes or other broadcast materials. It can also be used to make slurry or trowel systems and can be applied to a thickness of ½” or greater on horizontal surfaces. Consult your NSP representative for a recommendation based on your project parameters.

Intended

Uses:

Patching
Trowel down and slurry flooring systems
Reinforce structures with fiberglass and carbon fiber
Secondary containment
Clarifiers

Product

Features:

Excellent adhesion to properly prepared surfaces
Impact resistant
Semi-Rigid with 25% elongation
Environmentally sound
100% Solids, NO VOC, low viscosity
Elongation to accommodate substrate movement
Easy, convenient 1:1 mixing ratio

Physical

Data:

Type: Acrylic Monomer Modified Epoxy
Color: Clear
Components: Two
Mixed Ratio: 1 Part A (Resin): 1 Part B (Hardener) by volume
Volume Solids: 100% - VOC 0 lbs/gal
Pot Life @ 77F/25C (450g): 30 minutes
Gel Time @ 77F/25C (150g): 50 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: 6 hours
Maximum Recoat Time @ 77F/25C: 48 hours
Minimum Cure Time – Full Service @ 4 days at 77 DegF/ Maximum Resistance 7 days
Thinner: Not Recommended
Packaging: 4 Gallon Kit, 10 Gallon Kit and 105 Gallon Kits

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



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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 2 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, 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:

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