



NSP SPECIALTY PRODUCTS

Technical Data Sheet

NSP 122 Industrial Floor Coating

Description: NSP 122 is a two-component, high performance, self-leveling epoxy floor coating. This 100% solids formulation provides excellent protection for areas exposed to the harsh effects of abrasive traffic, impact and chemical exposure. With proper application, NSP 122 effectively restores and protects new and old concrete floors leaving a smooth durable finish that is easy to maintain. Full cure in twelve hours makes NSP 122 the ideal choice for maintenance projects on a fast track.

Intended

Uses: New construction or concrete restoration projects – Commercial Garage Service
Manufacturing Areas and Aisles
Aircraft Hangers - Clean Rooms – Hospitals – Restaurant Kitchen Floors

Product

Features: Moisture Tolerant- 12 hour Full Cure
Offers less downtime than most generic coatings
Glass filled for enhanced toughness
Tenacious adhesion on properly prepared surfaces
Tile like high gloss finish easy to clean
Self-leveling, easy application with squeegee and roller
Environmentally sound
Available in a variety of standard colors

Approvals: Accepted for use by the USDA in Federally Inspected Meat/Poultry Plants
Accepted by the Canadian Food Inspection Agency in Registered Establishments

Physical

Data: Type: Modified Epoxy Resin/Proprietary Blend Amine Adduct Hardener
Color: White, Black, Tile Red, Light, Medium and Dark Gray. Safety Colors and other non-standard colors available upon request
Components: Two
Gloss: High
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
Maximum Recommended Service Temperature: Dry Air 300F/149C
Application Temperatures: 50-90F (10-32C)



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Physical Data:

Minimum Recoat Time @ 77F/25C: 6 hours
Maximum Recoat Time @ 77F/25C: 48 hours
Minimum Cure Time – Full Service @ 77F/25C: 12 hours
Theoretical Coverage: 1604 sq/ft/gal/mil – Allow for appropriate loss
Minimum Recommended Thickness: 10 mils
Recommended Spread Rate: Dependent upon concrete porosity, service environment and desired aesthetic.
Maximum Thinner: Not recommended
Packaging: Pre-portioned 3 Qt. Kit/ 3 Gal Kit/ 15 Gal Kit

Physical Properties and Performance

PROPERTY	TEST METHOD	RESULT
Tensile Strength	ASTM D638	5600 psi
Compressive Strength	ASTM D695	11700 psi
Flexural Strength	ASTM D790	8900 psi
Adhesion to Concrete	ASTM D4541	Substrate Failure
Adhesion to Steel SSPC-SP10	ASTM D4541	>1200 psi
Adhesion to Damp Concrete	ASTM D4541	>350 psi Substrate Failure
Tensile Elongation	ASTM D638	5%
Hardness, Shore D	ASTM 2240	90
Abrasion Resistance	ASTM D460, 1000 g Load 1000 cycles	37.7 mg Average Wt. Loss
Flame Spread	ASTM E84	Class A
Flammability	ASTM D635	Self Extinguishing

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: 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.



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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. Begin application immediately – no induction time required.

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 properties of this material. Clean up using Acetone or other Ketone Solvent. For concrete surfaces, a primer coat of either NSP 100, 101 and 110 is strongly recommended

Method of

Application: Brush, Phenolic Core Roller, Airless Spray

Warning &

Safety: **FOR INDUSTRIAL USE ONLY – KEEP AWAY FROM CHILDREN**

Refer to Material Safety Data Sheet for NSP 122 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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