



NSP SPECIALTY PRODUCTS

Technical Data Sheet

NSP 125 Epoxy Resurfacer

Description: NSP 125 is a 100% solids, epoxy resurfacer designed to quickly and effectively restore deteriorated concrete leaving a smooth, durable, high gloss finish. This product is ideal for use on spalled or damaged concrete floors that have been eroded by wear, heavy traffic, impact or chemical spills. NSP 125 contains no solvents and can be applied in a one-coat application from 40 – 125 mils.

Intended

Uses:
Resurface, level and restore spalled or damaged concrete floors
Protects concrete from abrasion, chemical and corrosion attack
Floors subjected to heavy forklift traffic
High impact areas such as loading docks, aisle ways and process floors

Product

Features:
Moisture Tolerant- 12 hour Full Cure - Eliminates Costly Downtime
Glass and silica filled for added durability and toughness
Faster application than complicated multi-step epoxy systems
Tile like, high gloss finish – easy to clean and maintain
Over coating is not necessary
No specialized application or trowel equipment needed

Approvals: Accepted for use by the USDA in Federally Inspected Meat/Poultry Plants

Physical

Data:
Type: Modified Epoxy Resin/Proprietary Blend Amine Adduct Hardener
Color: Light, Medium and Dark Gray, White, Tile Red- other colors available upon request
Components: Two
Gloss: High
Mixed Ratio: 4 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 Temp. 200F/93C
Application Temperatures: 50-90F (10-32C)
Minimum Recoat Time @ 77F/25C: 6 hours
Maximum Recoat Time @ 77F/25C: 48 hours



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Physical

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Minimum Cure Time – Full Service @ 77F/25C: 12 hour
Minimum Recommended Thickness: 40 mils
Maximum Recommended Thickness per coat: 125 mils
Theoretical Coverage: 1604 sq/ft/gal/mil – Allow for appropriate loss
Recommended Spread Rate: Dependent upon concrete porosity, service environment and desired aesthetic.
Maximum Thinner: Not recommended
Packaging: Pre-proportioned 5-Gallon Kit

Physical Properties and Performance

PROPERTY	TEST METHOD	RESULT
Tensile Strength	ASTM D638	4200 psi
Compressive Strength	ASTM D695	12700 psi
Flexural Strength	ASTM D790	6000 psi
Adhesion to Concrete	ASTM D4541	Substrate Failure
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	35 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 or scarified to provide a profile for adhesion. A profile of 15-25 mils is required for coating thickness between 40-125 mils. Consult NSP for coating thickness above 125 mils. 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. COMPLETE UNIT MUST BE MIXED AND APPLIED AT ONE TIME. DO NOT MIX PARTIAL QUANTITIES FROM CONTAINERS. Prior to mixing, components A Resin and B Hardener should be at room temperature (60-75 F/16-24C). Pre-mix Part A Resin for 2 minutes prior to mixing with Part B Hardener. Pour Part B Hardener into Part A Resin. Mix for 3 - 5 minutes using a Jiffy mixer head and a mechanical drill. To ensure complete mixing, scrape sides and bottom of container. Pour entire mixed contents of the A container into a clean mixing bucket. Take care to scrape the bottom and sides of the A container to remove as much coating as possible into the clean mixing bucket. Mix material again for an additional 1-2 minutes until blended. DO NOT HAND MIX. Begin application immediately – no induction time. Incomplete mixing will result in soft spots or color variation.

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. One of the NSP Primers 100, 101 and 110 is required for use with NSP 125 Epoxy Resurfacer.

Method of

Application: Immediately after mixing, pour properly mixed contents NSP 125 onto floor in ribbons and begin smoothing with notched squeegee or gauge rake. A spiked roller or porcupine roller is strongly recommended to release air bubbles.

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 125 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.



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