



NSP SPECIALTY PRODUCTS

Technical Data Sheet

NSP 100 Epoxy/Concrete Sealer

Description: NSP 100 Epoxy/Concrete Sealer is a deep penetrating primer used to promote the adhesion of various NSP topcoats to dry or damp concrete surfaces. Its extremely low viscosity allows for permeation into the concrete with easy application by roller or spray.

Intended

Uses: Primer for horizontal and vertical concrete surfaces. Increases bond of coating system over surfaces that may be contaminated with oils.

Product

Features: Superior adhesion to concrete – low build formula
Moisture tolerant
Ease of application – brush, roller or spray
Provides chemical and mechanical bond with topcoat provided recoat times are observed.

Physical

Data: Type: Modified Epoxy Resin/Proprietary Blend Amine Adduct Hardener
Color: Clear
Components: Two
Mixed Ratio: 2 Parts A (Resin): 1 Part B (Hardener) by volume
Volume Solids: 50% - VOC 3.32 lbs./gal
Pot Life @ 77F/25C: 90 minutes
Application Temperatures: 50-90F (10-32C)
Minimum Recoat Time @ 77F/25C: 1 hour
Maximum Recoat Time @ 77F/25C: 48 hours
Recommended Spread Rate: 150-350 sq/ft/gal - Actual dry film thickness may vary due to the porosity of the concrete
Thinner: Do not thin
Packaging: Pre-portioned 3 Qt. Kit/ 3 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:

New 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.

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. Do not use NSP 100 as a primer over tightly adhered old coatings.

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 OR PROPER COMPONENT RATIOS MAY NOT BE OBTAINED. 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 minute. DO NOT HAND MIX. Begin application immediately – no induction time.

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 of this material. Clean up using Acetone or other Ketone Solvent.

Method of

Application: Brush, Phenolic Core Roller, Airless Spray

Storage & Shelf Life:

FLAMMABLE LIQUID – KEEP AWAY FROM HEAT, FLAME AND POSSIBLE IGNITION SOURCES. 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 100 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:

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.