NSP SPECIALTY PRODUCTS

Technical Data Sheet

NSP 120 HB High Performance-High Build Epoxy

Description: NSP 120HB, a two component, 100% solids, epoxy coating offers excellent chemical, corrosion and abrasion resistance in severe industrial environments. This high build version of our proven NSP-120 High Performance Epoxy Coating features a 25-150 mil thickness in a one coat application, a unique 12-hour full cure and no specialized equipment for application.

Intended Uses: Tank/Pipe Linings, Joining & Maintenance Repair, Waste Treatment, Wet Wells, Containment Areas, Walls, Machinery/Equipment, Structural Steel, Nuclear and Marine Applications.

Product Features:
Moisture Tolerant- 12 hour Full Cure
Ease of application – brush, roller or spray
Tenacious adhesion on properly prepared surfaces
Tile like high gloss finish easy to clean and decontaminate
Environmentally sound

Physical Data:
Type: Modified Epoxy Resin/Proprietary Blend Amine Adduct Hardener
Color: White, Light Gray.
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 minute

Physical Data:
Maximum Recommended Service Temperature:
Dry Air Temp. 300F/149C – Immersion: Deionized water 190F/88C
Application Temperatures: 50-90F (10-32C)
Minimum Recoat Time @ 77F/25C: 3 hours
Maximum Recoat Time @ 77F/25C: 48 hours
Minimum Cure Time – Full Service @ 77F/25C: 12 hours
Sag @ 77F/25C: 50 mils
Theoretical Coverage: 1604 sq/ft/gal/mil – Allow for appropriate loss
Thinner: DO NOT THIN
Packaging: Pre-portioned 3 Qt. Kit/ 3 Gal Kit/ 15 Gal Kit

P.O. Box 4690 Pinehurst, NC 28374 Toll Free: 800-248-8907 or 910-235-0468 Fax: 910-235-3902

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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-SP10 Near White Blast Cleaning with 3.0-mil profile
Non-Immersion Service: SSPC-SP6 Commercial Blast Cleaning with 2.0 mil profile
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.

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.

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 and sag properties of this material. Do not exceed 20% by volume of thinner with NSP-T1 Thinner. NSP-T1 Thinner will not clean hoses or equipment adequately. 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

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Recommended Equipment: *Airless Spray*

Recommended WIWA Professional Pump – (minimum) 45:1 or 64:1
Tip Range – WIWA 625 – Gun WIWA 500 D
Hose - 3/8" I.D. if less than 50 ft. - greater than 50 ft. use 1/2" High Pressure Hose
Inbound Air – 60 PSI
Pressure at the tip - increase pressure slowly to 3800 psi and fine tune to achieve proper spray pattern. Check condition of fan at spray tip. During the first seconds of spraying, the material will often finger. Raise or lower pressure to adjust width. Periodically check pressure gauges while spraying. Knowing operating pressure will be useful in analyzing any changes to your spray pattern.
Whip – 3', 1.4" Hose
Take care to prevent mixed material from setting up in hoses. For optimum results, keep hose as short as possible, out of direct sunlight or away from heat. Purge immediately after spraying with Acetone or Ketone solvent. Cured material must be mechanically removed.

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 120 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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