



# NSP SPECIALTY PRODUCTS

## Technical Data Sheet

### NSP 625 Epoxy Wearing Compound

**Description:** NSP 625 Epoxy Wearing Compound is a 100% solids two-component epoxy polymer designed to be used as an abrasive resistant paste for protecting, rebuilding and repairing high wear areas and equipment. This ceramic filled compound exhibits quick curing properties, exceptional adhesion and abrasion resistance.

#### Intended

**Uses:** Equipment exposed to abrasive materials  
Cyclone and separator bodies  
Slurry pumps  
Fan blades and housings  
Dust collectors and exhausters  
Chutes and Hoppers  
Elbows and transition points  
Material Handling Equipment

#### Product

**Features:** 100% solids, no VOC  
Adhesion to concrete, steel or ceramic surfaces  
Quick cure reduces costly downtime and loss  
Environmentally sound

#### Physical

**Data:** Type: Modified Epoxy Resin/Proprietary Blend Amine Hardener  
Color: Light Gray  
Components: Two  
Weight Per Gallon – lbs/gallon Part A Resin 16.69 Part B Hardener 14.29  
Mixed Ratio: 2 Parts A (Resin): 1 Part B (Hardener) by volume  
Volume Solids: 100% - VOC 0 lbs/gal  
Pot Life @ 125g @ 77F/25C: 20- 30 minutes  
Maximum Recommended Service Temperature:  
*Dry Air Temp. 200F (100C)*  
Application Temperatures: 50-90F (10-32C)  
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: Actual coverage will vary depending on surface irregularity and depth of repair.  
Thinner: Not recommended  
Packaging: 30# unit pkg in 2 Gallon Unit

**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:** 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). Empty Part B Hardener into Part A Resin. Mix for 3 minutes using a Jiffy mixer head and ½” 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. 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:** Apply with putty knife or trowel. Multiple applications may be necessary on vertical applications to achieve thickness greater than ½”.

#### 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 625 Part A and B supplied with this product prior to application. MSDS may be obtained via web site at [www.nsp-specialty.com](http://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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#### **Disclaimer & Limited Warranty:**

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