

## TECHNICAL DATA

### **NP863B, Non-Gassing Single-Component, Moisture Cured, Polyurethane Membrane**

NP863B is a single-component, liquid-applied polyurethane waterproofing coating used as a base coat in most of NPI's polyurethane deck and roof coating systems. This low-odor membrane exhibits high resilience to expansion and contraction, providing the flexibility needed to accommodate various building stresses. It provides 100% contact with the substrate to eliminate migratory water problems and is designed for demanding exterior applications.

#### **FEATURES & BENEFITS:**

Single-component	Provides 100% contact, eliminates migratory water problems
High strength, high elongation, high adhesion	Designed for demanding exterior applications
Excellent waterproofing properties	Stress-relieving, crack-bridging membrane
Withstands extreme environmental conditions	Easy application, no mixing in curing agent.
Low-odor during application and cure	
Resilient to expansion and contraction of substrate	

**PRODUCT DESCRIPTION:** Basic Uses: NP863B is the standard base membrane used in the NPI traffic bearing and roof coating systems. Please refer to the pertinent Application-Specification Guide on each of these systems.

**LIMITATIONS:** Containers that have been opened must be used within one or two days since the product is a moisture-reactive material that will gel or set up when exposed to moisture in the air. A polyethylene sheet should be used as a blanketing material prior to re-sealing the lid on a partially used container. Prior to the application of NP863B, proper surface preparation procedures must be followed. Refer to the NPI Technical Bulletin on Surface Preparation of Plywood and Concrete Substrates. NP863B cures faster when applied during warm weather and high humidity conditions and slower during cool temperatures and low humidity conditions. The rate of cure may be accelerated by incorporating NP861A Accelerator.

**SHELF LIFE:** Nine (9) months after manufacture when continuously stored in unopened metal pails at temperatures less than 80°F. Stir thoroughly prior to use.

**INSTALLATION:** All substrates must be free of all contaminants and should be primed with NP862P water-based epoxy primers prior to the application of NP863B. Apply primers at a rate of 250-350 square feet per gallon depending upon substrate porosity or surface profile. As a moisture cure product, the relative humidity should be greater than 30% and less than 90% during the application and cure of the product.

**APPLICATION:** NP863B is normally applied at a rate of 40 to 50 square feet per gallon, per coat, resulting in a 32 to 40 mil wet film thickness. When applying onto sloped or pitched surfaces, two or more coats of the standard NP863B Base Coat are required for this coverage. Allow a minimum of 16 to 24 hours cure time between coats. NP863B is easily applied by squeegee, roller or notched trowel. Always follow by back rolling. Application should not commence unless the ambient temperature is 40°F or higher, and should not proceed during inclement weather. NP863B is usually used in conjunction with NP864I intermediate coat and NP866T aliphatic top coats. NP861A Accelerator may be added to NP863B to compensate for slower cure time in cold weather or for a shortened cure time for rehabilitation or repair projects. Please refer to the Accelerator Technical Literature or contact NPI for details.

**PRECAUTIONS** Before using this product, read the container precaution label and SDS sheets carefully. Exposure to urethanes or petroleum solvents may cause allergic skin or respiratory reactions. Do not get into eyes, onto skin or clothing. If contact occurs, flush affected areas with soap and water. Wash clothing before reuse. Use only with adequate ventilation. Seek medical help for all over exposures. THIS PRODUCT IS FOR PROFESSIONAL USE ONLY.

**CURE TIME @ 77°F, 50% R.H.**

@ 32 mils, - 24 hours

**MIX RATIO BY VOLUME:**

One component – mix well before using.

**STANDARD COLOR:** Light Deck Gray

**COVERAGE, Sq. Ft./Gal**

40-50 sq. ft.

**VOC CONTENT**

200 g/l Calculated

**TECHNICAL DATA – 863B**

Property	Typical Value	Test Method
Solids Content (Mixed)	86 ± 2%	ASTM D-1353
Weight Per Gallon (Mixed)	10.4 lbs.	ASTM D-1475
Viscosity @ 77°F	50-80 poise	ASTM Brookfield
Flash Point	Above 120°F	ASTM D-93
Tensile Strength	900 +/- 100 psi	ASTM D-412
Ultimate Elongation	500 +/- 100%	ASTM D-412
Hardness Shore A	65 +/- 5	ASTM D-2240
Tear Resistance	150 +/- 25 lbs/in	ASTM D-1004
Adhesive Bond Strength	195 psi cohesive failure	ASTMD-4541

**NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY**

*LIMITED WARRANTY* NPI warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any NPI materials prove to contain manufacturing defects that substantially effect their performance, NPI will, at its option, replace the materials or refund its purchase price. This limited warranty is the only warranty extended by NPI with respect to its materials. There are no other warranties, including the expressed or implied warranties of merchantability and fitness for a particular purpose. **NPI specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever. The dollar value of NPI's liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the NPI material in question.** Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. **NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT.** Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may **CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.**

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