

TECHNICAL DATA

NP866T, High Solids, Moisture-Cured, Industrial Maintenance Coating

NP866T is a high solids, moisture-cured, industrial maintenance coating used as the topcoat for most of NPI's polyurethane deck coating systems. Its high solids content minimizes the shrinkage typically seen in coatings with high amounts of solvents, ensuring better overall coverage. NP866T has excellent water resistance, high abrasion resistance, and premium color retentive properties. NP866T contains less than 250 g/l VOC.

FEATURES & BENEFITS:

Single-component application, vulcanized by moisture	Easy, cost saving application
Non-yellowing with excellent weathering properties	Color stable aliphatic urethane backbone
Excellent water resistance	Eliminates migratory water problems
Rapid cure at room temperatures and can be accelerated for low temperature or low humidity cure	Quick turn-around time with the use of NPI accelerator
High hiding with one coat application	High abrasion resistance.

PRODUCT DESCRIPTION: Basic Uses: NP866T is an abrasion resistance and weather resistant topcoat used in most NPI traffic bearing coating systems. Please refer to the pertinent Application-Specification Guide on each of these systems. NP866T is used where optimum weather resistance, abrasion resistance and color stability are required. It is used in conjunction with Non-Gassing NP863B and NP865IT base membranes and intermediate membranes. The cured topcoat easily withstands the extreme environmental conditions encountered in exterior construction environments. When used in conjunction with elastomeric base membranes, the NP866T composite system contracts with lower temperatures and readily expands when temperatures increase. NP866T may also be used alone as an abrasion-resisting maintenance coating.

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. Keep lid tightly sealed when material is not in use. Tire contact and chemical exposures may cause staining.

SHELF LIFE: Twelve (12) months after manufacture when continuously stored indoors in unopened metal pails at temperatures under 80°F. Stir thoroughly prior to use.

INSTALLATION: Surface Preparation: All surfaces to be coated with NP866T must be thoroughly dry and free of all contaminants, including oxidation on old topcoats or base coats as well as construction debris or deposits. 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: NP866T is normally applied at a rate of 80-100 square feet per gallon, per coat, resulting in a film thickness of 16 to 20 wet mils. Coverage will vary depending on the aggregate size, texture or degree of surface porosity. The larger the aggregate used, the lower the coverage due to the greater surface area being covered. NP866T is easily applied by squeegee, roller, or notched trowel. Always follow by back rolling. At 50% relative humidity and 77°F, the coating will be dry to the touch within 16 hours. Traffic should not be allowed on the finished coating for 24 hours. NP861A accelerator may be added to NP866T to allow for light traffic on decks within a matter of hours. Please refer to the Technical Bulletins on accelerators or contact NPI.

PRECAUTIONS: Before using this product, read the container precautionary label and the SDS data sheet carefully. Exposure to urethanes or petroleum solvents may cause allergic skin or respiratory reaction. 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.
@ 10 mils, - 16-24 hours

VOC CONTENT
250 g/l Calculated

MIX RATIO BY VOLUME:
One component – mix well before using.

STANDARD COLOR: Storm Gray, Fawn. Custom Colors are available with a minimum order of 180 gallons. Contact our office for further information.

COVERAGE, Sq. Ft./Gal
80-100 sq. ft (typical).

TECHNICAL DATA – 866T

Property	Typical Value	Test Method
Solids Content (Mixed)	78 ± 2%	ASTM D-1353
Weight Per Gallon (Mixed)	9.7 lbs.	ASTM D-1475
Viscosity @ 77°F	25-35 poise	ASTM Brookfield
Flash Point	Above 116°F	ASTM D-93
Tensile Strength	3300 +/- 300 psi	ASTM D-412
Ultimate Elongation	200 +/- 50%	ASTM D-412
Hardness Shore A	90 +/- 5	ASTM D-2240
Tear Resistance	350 +/- 50 lbs/in	ASTM D-1004
Water Vapor Permeability	0.1 perms	ASTM D-96
Adhesive Bond Strength	30 pli to base coat	
Water absorption	less than 1%	ASTM D-543
Service Temperature Range	-30F – 180F	
Thermal Shock	No loss of adhesion	Alternate heat/cold cycle
Weathering Resistance	No chalking @ 2000 hours	ASTM G-23
Chemical resistance	Excellent	ASTM D-2299
Abrasion Resistance, inch loss	less than 0.002	ASTM C-502 Tabor Abrasion, 1000 Rev. with 1000Gm Weight, CS-17 Wheel

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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