

## NP813 TECHNICAL DATA (Clear Acrylic Roof Coating)

**PRODUCT DESCRIPTION:** NP813 is a clear acrylic coating that withstands ultraviolet light, temperature extremes and mildew. This flexible membrane will accommodate building movement without cracking or splitting.

**RECOMMENDED FOR:** Skylights or fiberglass panels. **NOTE:** NP813 will turn a milky white when exposed to water, however, this condition is temporary and will abate after the coating has redried. This condition will continue to occur until the coating has been exposed to weathering conditions for approximately two months, then the discoloration will diminish with age when exposed to water.

**NOT RECOMMENDED FOR:** Application over tar based roofing or EPDM rubber.

**SOLIDS BY WEIGHT:** 55% (+,-3)

**RECOMMENDED COVERAGE:**

Nonporous glass: one gallon per 200 square feet; reinforced fiberglass 1 1/2 gallons per 200 square feet

**COLORS:**

Clear only

**RECOMMENDED DRY FILM THICKNESS:**

4-7 mils dry thickness will result from applying the recommended 8-12 mils wet thickness

**PACKAGING:**

Available in 5 gallon pails (net= 45 pounds approx.) and 55 gallon drums (net= 500 pounds approx.)

**RECOMMENDED TEMPERATURE AND R.H.**

We recommend using a 218-320 Graco 30:1 ratio pump system or equivalent.

**RECOMMENDED TEMPERATURE AND R.H.**

We recommend applications with temperatures above 50F and Relative humidity below 95% with no rain imminent within 24 hours.

TYPICAL PROPERTIES: (CURED FILM)		
PROPERTY	TEST METHOD	RESULTS
Accelerated weathering	ASTM G53 (3000 hours QUV accelerated weather tester UV-B lamps no. QES-40/280-315 nanometers (12 hr. QUV @ 60 deg C and 12 hr. con @ 50 deg C)	Excellent with no apparent degradation
Elongation	ASTM D412 500 (+,-) 50 mm/min @ 75 deg F and 50% R.H.	100%

TYPICAL PROPERTIES: (Liquid Form)		
PROPERTY	TEST METHOD	RESULTS
Density (#/gal)	ASTM D1475 U.S. standard weight per gallon cup at 77F and 50% R.H.	9.1 to 9.2 #/gal
Viscosity	Brookfield viscometer	750 cps
Color	(liquid) (coating)	Milky white liquid clear
Particle size		Not detectable
Minimum film formation	ASTM D2354 temp. 0 to 25 deg C	45 degrees F
Heat stability	10 days at 120 deg F then re-evaluated	Material stability maintained
Shelf life	Closed container at 65 degrees F	One year shelf life
Mildew resistance	ASTM D2574-86	Resistant to attack of micro-organisms in the can; no evident can swelling; no putrative or fermentive odors, no stringing structures, no noticeable viscosity change
Flash point	ASTM D3278 seta flash closed cup apparatus	Tested to 212F (no flash)

Physical properties are typical values and not specifications.

Please see reverse side for limitations of our liability and warranty.

## MIXING AND APPLICATION INSTRUCTIONS: NP813 Clear Acrylic Roof Coating

Store product in an area so as to bring the material to normal room temperature before using. Do not allow to freeze.

Mix the material thoroughly being sure to scrape the sides and bottom of the container. Continue mixing for another couple of minutes to insure that the mixture is properly mixed. Mix the materials with slow speed mixing equipment or by hand mixing in order to minimize air being whipped into the coating.

Make certain that the substrate where the product is to be applied is clean, sound and free of all laitance, dirt, dust, oil, grease, or foreign contaminants.

Make certain that the skylight or fiberglass temperature and the air temperature as well as any humidity recommendations are within the recommended ranges before applying the product. It is best to perform a test prior to the use of the product on a small application area to evaluate if the clarity and performance requirements are acceptable before undertaking the entire application.

This product may be applied by roller, brush or spray. Be sure to apply this product at the specified coverage rate or recommended mil thickness. Too thick of an application may result in product failure.

Allow sufficient time between coats, and remember, as temperatures become lower this product will require additional time to cure.

Always check the previous coat for foreign contamination before recoating. Clean or prepare the preceding coat if an inspection so warrants before applying any additional coats.

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

*We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. 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, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT.** We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. 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.***

**COPYRIGHT 9/18/15 NATIONAL POLYMERS INC.**