

DIAMOND POLYMERS

DP811FP – TECHNICAL DATA ACRYLIC ROOF COATING

PRODUCT DESCRIPTION:

DP811 is an acrylic self-plasticizing monolithic roof coating that withstands ultraviolet light, temperature extremes, mildew and normal foot traffic. This flexible membrane will accommodate building movement without cracking or splitting.

RECOMMENDED FOR:

Most common sloped roof substrates such as wood, metal, and concrete.

NOT RECOMMENDED FOR:

Application over tar based roofing, EPDM rubber or ponding water

SOLIDS BY WEIGHT:

65% (+,-3)

SOLIDS BY VOLUME:

63% (+,- 3)

RECOMMENDED COVERAGE:

Coverage depends on surface conditions and application procedures. Normally, 1 1/2 gallons per 100 square feet of the base coat and 1 1/2 gallons per 100 square feet of the topcoat combine to achieve the recommended 40-45 mils wet thickness.

THEORETICAL COVERAGE:

33-34 square feet per gallon at recommended millage (applied in two coats)

COLORS:

Beige (base coat) and white (topcoat) colors may vary slightly from batch to batch due to variations in feed stock material

RECOMMENDED DRY FILM THICKNESS:

25-30 mils dry thickness will result from applying the recommended 40-45 mils wet thickness (applied in two coats)

PACKAGING:

Available in 5 gallon pails (net= 50 pounds, 4.6 gallons approximate) and 55 gallon drums (net= 550 pounds, 51 gallons approximate)

RECOMMENDED SPRAY EQUIPMENT:

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

TYPICAL PROPERTIES: (LIQUID FORM)

PROPERTY	TEST METHOD	RESULT
Viscosity	ASTM D115 Thomas Stormer Model 9730-G45	101 kreb units @ 77°F, 50% R.H.
Density (#/gal)	ASTM D1475 US standard weight per gallon cup at 77°F and 50% RH	Range= 10.5-10.6 mean= 10.54#/gal density= 10.5
Particle size	ASTM D1218	<38 microns or hegman 4-5
Minimum film formation	ASTM D2354 temp 0 to 25° C	40 °F
Heat stability	10 days at 120°F then re-evaluated	Material stability maintained
Shelf life	Closed container at 65°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 212°F (no flash)

TYPICAL PROPERTIES: (CURED FILM)

PROPERTY	TEST METHOD	RESULTS
Hardness	ASTM D2240 shore A @ 75°F 50% RH Barcol hardness tester model 3061	50-60
Accelerated weathering	ASTM G53 (9000 hours QUV accelerated weather tester UV-B lamps no. QES-40/280-315 nanometers (12 hr. QUV @ 60°C and 12 hr. con @ 50°C)	Excellent with no apparent degradation
Tensile strength	ASTM D412 @ 75°F and 50% RH. Test is result of medium value (for three)	318 psi
Elongation	ASTM D412 500 (+,-) 50 mm/min. @ 75°F and 50% RH	200% minimum
Memory recovery		Nearly 100%
Reflectivity	ASTM E97	90% (white topcoat)

ASTM D-6083

STANDARD SPECIFICATION FOR LIQUID APPLIED ACRYLIC COATING USED IN ROOFING
Meets or exceeds all specifications for ASTM D-6083 including ASTM D562, ASTM D2196, ASTM D2697, ASTM D1644, ASTM D2370, ASTM D1653A, ASTM D471, ASTM D4798, ASTM C794, ASTM D903, ASTM G21, ASTM D624, ASTM D522

**UNDERWRITERS LABORATORIES INC.
TESTED & CERTIFIED**

**FACTORY MUTUAL TESTED AND
CERTIFIED FOR CLASS A RATING AT A 4.5
IN. /12 IN. SLOPE**

*Physical properties are typical values and not specifications.
Please see reverse side for limitations of our liability and warranty.*

INSTRUCTIONS (DP811FP)

- 1) Store product in an area so as to bring the material to normal room temperature before using.
- 2) Mix the material thoroughly being sure to scrape the sides and bottom of the container. Continue mixing for another couple of minutes to insure a homogeneous mixture that 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.
- 3) 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. Wire brush or abrasive blast all loose and scaling rust from the roof. Apply DP815 to all head laps and boltheads.
- 4) Make certain that the roof temperature and the air temperature as well as any humidity recommendations are within the recommended ranges before applying the product.
- 5) 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. We recommend a 218-320 Graco 30:1 ratio pump system or equal with a coverage rate of 1 1/2 gallons per 100 square feet per coat (two coats recommended)
- 6) Allow sufficient time between coats, and remember, as temperatures become lower this product will require additional time to cure.
- 7) 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.
- 8) Take notice of the full cure time and do not open the area to abusive use before the full characteristics of the coating is achieved.
- 9) Provide for routine maintenance of your roof to assure years of trouble free performance.

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. 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.***

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