

DIAMOND POLYMERS

DP812 – TECHNICAL DATA ACRYLIC ROOF COATINGS

PRODUCT DESCRIPTION:

DP812 is an acrylic self-plasticizing monolithic roof coatings that withstands ultraviolet light, temperature extremes, mildew, weathering and normal foot traffic. This flexible membrane will accommodate building movement without cracking or splitting. The built in flexibility is maintained at lower temperatures.

RECOMMENDED FOR:

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

NOT RECOMMENDED FOR:

Application over tar based roofing, EPDM rubber or ponding water.

SOLIDS BY WEIGHT:

62% (+,-3)

SOLIDS BY VOLUME:

55% (+,-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 gallon per 100 square feet of the top coat (3 gallons total) combine to achieve the recommended wet mil thickness of 40-45 mils.

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:

Dry film thickness= 22 to 25 mils, when material is applied at the recommended 40-45 mils wet thickness (applied in two coats)

PACKAGING:

Available in 5 gallon pails and 55 gallon drums. Net per gallon= 11.24 pounds (the listed density is approximate and typical)

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	100-115 krebs @ 77F, 50% R.H.
Particle size	ASTM D1218	<38 microns or hegman 5-6
Minimum film formation	ASTM D2354 temp. 0 to 25 deg C	45 degrees F
Density (typical) (#/gal)	ASTM D1475 U.S. standard weight per gallon cup at 77F and 50% R.H.	=11.24#/gal
Heat stability	10 days at 120 deg F then re-evaluated	Material stability maintained
Shelf life	Closed container at 65 degrees F	6-12 month 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)

TYPICAL PROPERTIES (CURED FILM)

PROPERTY	TEST METHOD	RESULTS
Hardness	ASTM D2240 shore A @ 75F 50% R.H. Barcol hardness tester model 3061	40-50
Accelerated weathering	ASTM G53 (9000 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
Tensile strength	ASTM D412 @ 75 deg F and 50% R.H. Test is result of medium value (for three)	150 p.s.i.
Elongation	ASTM D412 500 (+,-) 50 mm/min @ 75 deg F and 50% R.H.	>200%
Memory recovery		Nearly 100%
Reflectivity	ASTM E97	89% (white topcoat)

Physical properties are typical properties and not specifications.

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

MIXING AND APPLICATION INSTRUCTIONS (DP812)

- 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 (all laps and seams are properly fastened) 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 DP815M 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 normal 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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