

DIAMOND POLYMERS

DP257 – TECHNICAL DATA

CHEMICAL RESISTANT NOVOLAC COLORED EPOXY PRIMER

PRODUCT DESCRIPTION:

DP257 is a two component novolac epoxy primer in colors. DP257 offers high solids, good substrate penetration and low odor. This primer reduces air release generation from the substrate when applying higher solids novolac topcoats. This will result in fewer surface imperfections in high build and self leveling type coating.

RECOMMENDED FOR:

Recommended for priming concrete and cement substrates prior to applying other novolac topcoats. This product can withstand exposure to many chemicals.

SOLIDS BY WEIGHT:

Mixed= 85% (+/- 2%)

SOLIDS BY VOLUME:

Mixed= 80% (+/- 2%)

VOLATILE ORGANIC CONTENT:

Part A= 1.7 pounds per gallon

Part B= 1.25 pounds per gallon

STANDARD COLORS:

Light gray, medium gray, and tile red

RECOMMENDED FILM THICKNESS:

5-6 mils per coat wet thickness (yields 4-5 mils dry)

COVERAGE PER GALLON:

267 to 320 square feet @ 5-6 mils wet thickness

PACKAGING INFORMATION:

3 gallon and 15 gallon kits (volume approx),

3 gal kit= 2 gallons part A (9.95#/gal) and 1 gallon part B (8.3#/gal)

MIX RATIO:

9.95# part A (1 gallon) to 4.15# (1/2 gallon) part B (volumes are approximate)

SHELF LIFE:

1 year in unopened containers

FINISH CHARACTERISTICS:

Satin gloss (>20 at 60 degrees @ Erichsen glossmeter)

FLEXIBILITY:

No cracks on a 1/8" mandrel

IMPACT RESISTANCE:

Gardner Impact, direct= 50 in. lb. (passed)

ABRASION RESISTANCE:

Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 26.1 mg loss

ADHESION:

375 psi @ elcometer (concrete failure, no delamination)

VISCOSITY:

Mixed= 250-500 cps (typical)

DOT CLASSIFICATIONS:

Part A "FLAMMABLE LIQUID N.O.S., 3, UN1993 PGIII"

Part B "FLAMMABLE LIQUID N.O.S., 3, UN1993 PGIII"

CURE SCHEDULE: (70°F)

pot life – (1 1/2 gallon volume).....1-3 hours
tack free (dry to touch).....4-7 hours
recoat or topcoat.....7-10 hours
light foot traffic.....12-24 hours
full cure (heavy traffic).....2-7 days

APPLICATION TEMPERATURE:

60-90 degrees F with relative humidity below 90%

CHEMICAL RESISTANCE:

REAGENT	RATING
acetic acid 5%	D
xylene	D
toluene	D
1,1,1 trichloroethane	C
mek	C
methyl alcohol	C
gasoline	D
10% sodium hydroxide	E
50% sodium hydroxide	E
10% sulfuric acid	E
10% hydrochloric acid	E
20% nitric acid	C
ethylene glycol	E

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

PRIMER:

None required

TOPCOAT:

Many novolac products are suitable such as our DP253 or our DP253SL product line.

LIMITATIONS:

*Colors may be affected by high humidity, low temperatures or chemical exposure.

*For best results use a 3/8" nap roller.

*Slab on grade requires moisture barrier.

*Substrate temperature must be 5°F above dew point.

*All new concrete must be cured for at least 30 days.

*Physical properties are typical values and not specifications.

*This product should be topcoated with a suitable novolac epoxy topcoat.

*Colors may vary from batch to batch.

*See reverse side for application instructions.

*See reverse side for limitations of our liability and warranty.

INSTRUCTIONS (DP257)

- 1) **PRODUCT STORAGE:** Store product in an area as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degrees F.
- 2) **SURFACE PREPARATION:** Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.
- 3) **PRODUCT MIXING:** This product has a mix ratio of 9.95# part A to 4.15# part B by weight. Merely mix the two components together. After the two parts are combined, mix well with slow speed mixing equipment such as jiffy mixer until the material is thoroughly mixed and streak free.
- 4) **PRODUCT APPLICATION:** The mixed material can be applied by brush or roller. Maintain temperatures and humidity within the recommended ranges during the application and curing process. Improper mixing or applying the product too thick can result in product failure.
- 5) **RECOAT OR TOPCOATING:** This product is a primer, we recommend a topcoat. When you recoat or topcoat this product, you must first be sure that all of the solvents have evaporated from the coating during the curing process. The information on the front side are reliable guidelines to follow. However, it is best to test the coating before recoating or topcoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started. Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film, or deglossing.) If a blush is present, it can be removed with any standard type detergent cleaner prior to topcoating or recoating. The primary choice of topcoat will be other novolac epoxy coatings. Multiple coats of this product are suitable prior to topcoating.
- 6) **CLEANUP:** Use xylol
- 7) **FLOOR CLEANING:** Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.
- 8) **RESTRICTIONS:** Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle.

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 you 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 sales of our products. Our products contain chemicals that may **CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW THE PRECAUTIONS TO PREVENT BODILY HARM.***