

# DIAMOND POLYMERS

## DP326 – TECHNICAL DATA TWO COMPONENT ALIPHATIC URETHANE

### PRODUCT DESCRIPTION:

DP326 is a two component catalyzed aliphatic polyester polyurethane sealer that exhibits excellent characteristics for chemical resistance, flexibility, weathering, and UV stability.

### RECOMMENDED FOR:

Recommended for protecting surfaces from moderate chemical exposure while providing good UV stability.

### SOLIDS BY WEIGHT:

Mixed = 78% (+/- 2%)

### SOLIDS BY VOLUME:

Mixed = 77% (+/- 2%)

### VOLATILE ORGANIC CONTENT:

part A= 1.90 pounds per gallon

part B= 2.20 pounds per gallon

### STANDARD COLORS:

clear.

### RECOMMENDED FILM THICKNESS:

We recommend 5 mils per coat wet thickness

### COVERAGE PER GALLON:

350 square feet @ 5 mils wet thickness

### PACKAGING INFORMATION:

3 gallon and 15 gallon kits 3 gal kit= 2 gallons part A (8.7#/gal) and 1 gallon part B (8.8#/gal) for the clear (weights and volumes approximate)

### MIX RATIO:

2 parts A to 1 part B by volume

### SHELF LIFE:

1 year in unopened containers

### FINISH CHARACTERISTICS:

high-gloss (>80 at 60 degrees @ Erichsen glossmeter)

### IMPACT RESISTANCE:

Gardner Impact, direct & reverse=160 in lb (passed)

### ABRASION RESISTANCE:

Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 45.0 mg loss

### VISCOSITY:

Mixed= 1000 - 3000 cps (clear) (typical)

### DOT CLASSIFICATIONS:

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

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

### FLEXIBILITY:

No cracks on a 1/8" mandrel

### CURE SCHEDULE: (70°F)

pot life – .....2-4 hours  
tack free (dry to touch).....5-6 hours  
recoat or topcoat.....8-12 hours  
light foot traffic.....16 hours  
full cure (heavy traffic).....3-5 days

### APPLICATION TEMPERATURE:

45-90 degrees F.

### CHEMICAL RESISTANCE:

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

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:

Dependent on substrate type

### TOPCOAT:

None recommended

### LIMITATIONS:

- \*Colors or clarity for clear may be affected by high humidity, low temperatures, or chemical exposure.
- \*For best results use a high quality 3/8" nap roller.
- \*Substrate temperature must be 5°F above dew point.
- \* When offered, light colors (white etc.) may require multiple coats to achieve a satisfactory hide.
- \*Colors may vary from batch to batch, therefore, use only product from the same batch for an entire job.
- \*Physical properties are typical values and not specifications.
- \*See reverse side for application instructions.
- \*See reverse side for limitations of our liability and warranty.

- 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. All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. Be absolutely sure that the substrate is dry.
- 3) **PRODUCT MIXING:** This product has a two to one mix ratio by volume- merely mix two gallons of part A with 1 gallon part B. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. Avoid whipping air into the coating. Improper mixing may result in product failure.
- 4) **PRODUCT APPLICATION:** The mixed material can be applied by brush or roller. Maintain temperatures within the recommended ranges during the application and curing process. Too thick of an application may result in product failure. Exposure to certain types of lighting such as sodium vapor lights may cause the product to discolor.
- 5) **RECOAT OR TOPCOATING:** Multiple coats of this product are acceptable. If you opt to recoat 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 can be started. Always remember that colder temperatures will require more cure time for the product before recoating can commence. Before recoating or topcoating, check the coating to insure no contaminants exist. If contaminants are present on a previous coat, remove with a standard detergent cleaner. When recoating this product with subsequent coats of the urethane, it is advisable to apply the recoat before 24 hours passes.
- 6) **CLEANUP:** Use ketone solvents
- 7) **SURFACE CLEANING:** Caution! Some cleaners may affect the color of the coating 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 coated area 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.***

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