

# DIAMOND POLYMERS

## DP095 – TECHNICAL DATA

### EPOXY TEXTURE COATING AND GROUT

#### PRODUCT DESCRIPTION:

DP095 is a 100% solids epoxy for applications where a low build epoxy is needed to seal and hide epoxy mortar system imperfections while providing a durable textured wear surface. This product has outstanding wear resistance and superb chemical resistance.

#### RECOMMENDED FOR:

Recommended for a topcoating/texturing epoxy mortar power troweled systems or hand troweled systems as well as providing texture coats over concrete or other coatings.

#### SOLIDS BY WEIGHT:

100% (+/- 1%)

#### SOLIDS BY VOLUME:

100% (+/-1%)

#### VOLATILE ORGANIC CONTENT:

Zero pounds per gallon

#### STANDARD COLORS:

White, off white, light gray, medium gray, tile red, beige, and clear (clear is opaque clear)

#### OTHER COLORS ALSO AVAILABLE:

Dark gray, charcoal gray, brown, tan, light blue, and blue

*Special colors are available upon request*

#### RECOMMENDED FILM THICKNESS:

6-15 mils

#### COVERAGE PER GALLON:

106-266 square feet per gallon @ 6-15 mils (coverage may vary depending on actual mortar porosity)

#### PACKAGING INFORMATION

1 1/2 gallon kit (volumes approximate)

#### MIX RATIO:

(1 gallon) part A to (.50 gallons) part B (volumes approx.) 9.5# part A to 4.3# part B for colors and 9.3# part A to 4.6# part B for the clear.

#### SHELF LIFE:

1 year in unopened containers

#### FINISH CHARACTERISTICS:

Gloss (>60 at 60 degrees @ Erichsen glossmeter)

#### ABRASION RESISTANCE:

Taber adrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 23 mg loss

#### ADHESION:

410 psi @ elcometer (concrete failure, no delamination)

#### VISCOSITY:

Mixed= 800,000-1,000,000 cps (typical for colors)

Mixed= 15,000-20,000 cps (typical for clear)

#### DOT CLASSIFICATIONS:

Part A "not regulated"

Part B "CORROSIVE LIQUID N.O.S., 8, UN1760,PGIII"

#### FLEXURAL STRENGTH:

10,600 psi @ ASTM D790

#### COMPRESSIVE STRENGTH:

15,100 psi @ ASTM D695

#### TENSILE STRENGTH:

7,800 psi @ ASTM D638

#### GARDNER VARIABLE IMPACTOR:

50 inch pounds direct – passed

#### ULTIMATE ELONGATION:

1.5%

#### HARDNESS:

Shore D= 89

#### CURE SCHEDULE: (70°)

pot life – (1 1/2 gallon volume).....13-23 minutes  
tack free (dry to touch)..... 5-8 hours  
recoat or topcoat..... 8-12 hours  
light foot traffic.....12-18 hours  
full cure (heavy traffic).....3-7 days

#### APPLICATION TEMPERATURE:

50-90 degrees F with relative humidity below 90% for best results

#### CHEMICAL RESISTANCE:

REAGENT	RATING
xylene	C
MEK	A
methanol	A
ethyl alcohol	C
skydrol	B
10% sodium hydroxide	E
50% sodium hydroxide	E
10% sulfuric acid	C
70% sulfuric acid	A
10% HCl (aq)	C
5% acetic acid	B

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:

No primer is necessary when this product is used over a power trowel overlay system or concrete

#### TOPCOAT:

Optional: many epoxy and urethane topcoats are compatible

#### LIMITATIONS:

- \*Color stability or gloss may be affected by environmental conditions, high humidity or chemical exposure
- \*Colors may vary from batch to batch. Therefore, use only product from the same batch for an entire job.
- \*This product is not UV color stable, but has very good resistance to color change for an epoxy product. Therefore, a topcoat is optional
- \*Substrate temperature must be 5°F above dew point.
- \*For best results, apply with a flat squeegee, then backroll with a stippler texture roller.
- \*All new concrete must be cured for at least 30 days prior to application.
- \*Mix material well before using. Because this material is high in viscosity, it is often preferred to work with smaller 1 1/2 gallon kits.
- \*See reverse side for application instructions.
- \*Physical properties are typical values and not specifications.
- \*See reverse side for limitations of liability & warranty.

- 1) **PRODUCT STORAGE:** Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degree F. Low temperatures or great temperature fluctuations may cause crystallization.
- 2) **SURFACE PREPARATION:** The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil, 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.
- 3) **PRODUCT MIXING:** This product has a mix ratio of 2 parts A (9.5#/gallon) to 1 part B (4.30#/gallon) by volume for standard colors and 9.3# part A to 4.6# part B for the clear. Standard packages are in pre-measured kits and should be mixed as supplied. We recommend that the kits not be broken down unless suitable weighing equipment is available. However, a direct 2:1 mix proportioning by volume can be employed. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until material is thoroughly mixed & streak free. Continue mixing a couple more minutes to insure a homogeneous mixture. Make sure you scrape the bottom and sides of the pail while mixing. This material has a high viscosity-mix well, improper mixing may result in product failure.
- 4) **PRIMING:** This product is intended to be used over an epoxy mortar troweled system. It is advisable to select a mortar color similar to the color of the DP095 to be used. This product can also be used to texture concrete either over a coated or unprimed substrate.
- 5) **PRODUCT APPLICATION:** Make certain that the epoxy mortar overlay where the product is to be applied is clean, sound and free of all laitance, dirt, dust, oil, grease, water, or foreign contaminants. Apply the mixed coating by a flat flexible rubber squeegee so as to spread out the material in a uniform manner removing all excess material from the surface of the mortar; then backroll with a stippler texture roller. This application will provide a texture coat that will help hide mortar application defects while sealing the mortar with a durable wear resistant finish. It is best to roll the material in one direction and remove all excess material during application. Depending on the porosity of the mortar overlay and the color selected, it may be necessary to apply more than one coat of material to achieve uniform coverage. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process.
- 6) **RECOAT OR TOPCOATING:** Many epoxy coatings and urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product. When you recoat or topcoat this product, make sure the previous coat has tacked off before recoating. 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 by a standard type detergent cleaner.
- 7) **CLEANUP:** Use xylol
- 8) **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.
- 9) **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 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.***