

TECH DATA - DOC 220
POLYASPARTIC 85%



PRODUCT DESCRIPTION:

DOC 220 is a solvent based two component 85% solids polyaspartic aliphatic urethane clear coating. DOC 220 has excellent chemical resistance, hardness, abrasion resistance, UV stability and has an excellent clear gardner color. DOC 220 has an exceptionally quick tack free time of around 1-2 hours for foot traffic.

RECOMMENDED FOR:

Recommended for areas where a medium build clear coat is desired over a broadcast system and installation downtime is very limited. This product is suitable as a thin/medium build coating only. Can be used in garages, basements, walkways, medium duty warehouses, storage facilities, and other areas where a strong abrasion resistant floor is needed.

SOLIDS BY WEIGHT:

85% (+/- 3%)

SOLIDS BY VOLUME:

81% (+/-3%)

VOLATILE ORGANIC CONTENT:

Less than 159 grams per liter

COLORS AVAILABLE:

Clear – gardner color 1

RECOMMENDED FILM THICKNESS:

2-8 mils wet.

COVERAGE PER GALLON:

200-800 square feet per gallon.

PACKAGING INFORMATION:

1 ½ gallon kit, 3 gallon kit

MIX RATIO:

2:1 Two parts A to one part B by volume (volumes approximate)

SHELF LIFE:

6 months in unopened containers

FINISH CHARACTERISTICS:

Gloss (>70 at 60 degrees

COMPRESSIVE STRENGTH:

12,000 psi ASTM D695

TENSILE STRENGTH:

3,900 psi ASTM D638

ULTIMATE ELONGATION:

2.4%

HARDNESS:

Shore D= 80

ABRASION RESISTANCE:

Taber abraser CS-17

CURE SCHEDULE: (70°F) (70% relative humidity)

pot life – (150 gram mass).....30 minutes

actual usable working time is approx..... 15-20 minutes

tack free (dry to touch).....1-3 hours

recoat or topcoat.....2-4 hours

light foot traffic.....3-5 hours

full cure (heavy traffic)... ..24-48 hours

APPLICATION TEMPERATURE:

50-90 degrees F with relative humidity below 85%

PRIMER:

Recommend a suitable primer and testing to determine suitability.

TOPCOAT:

None recommended

LIMITATIONS:

- 1) Color stability may be affected by environmental conditions like high humidity/chemical exposure. Exposure to some types of lighting such as sodium vapor lights may cause discolorations.
- 2) Test Data based on resin.
- 3) Clarity of color may vary from batch to batch.
- 4) Substrate temperature must be 5°F above dew point.
- 5) Too thick of an application may result in surface imperfections, bubble generation or product failure.
- 6) Always apply a test patch to determine product suitability and adhesion performance for your proposed application method and procedures.
- 7) All new concrete must be cured for at least 30 days prior to application.
- 8) Do not expose this product to water until fully cured.
- 9) See page 2 application instructions.
- 10) Physical properties are typical values and not specifications.
- 11) See page 3 for limitations of our liability and warranty.

MIXING AND APPLICATION INSTRUCTIONS

- 1) **PRODUCT STORAGE:** Continuous storage should be between 60 and 90 degrees F.
- 2) **SURFACE PREPARATION:** All surfaces should be prepped by shot blasting or grinding. 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, proceed with application.
- 3) **PRODUCT MIXING:** This product has a mix ratio of two parts A to one part B by volume 2:1 (volumes approximate). Standard packages are in pre-measured kits and should be mixed as supplied in the kit. After part A and B are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. This product has a short usable pot life of about 15 minutes which is substantially shorter than the actual gel time for the product. Applying the product beyond the usable pot life can result in surface irregularities.
- 4) **PRIMING:** A suitable primer should be used before applying this product.
- 5) **PRODUCT APPLICATION:** The mixed material can be applied by squeegee, brush, or roller. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. This product is only intended for use as a medium build topcoat. Improper mixing may result in product failure. It should be pointed out that relative humidity can have a dramatic influence on the curing characteristics. The product will dry quicker and have less working time when the relative humidity is higher while a lower relative humidity will lengthen the dry time and working time.
- 6) **RECOAT OR TOPCOATING:** This material can be applied in multiple coats. If you opt to recoat this product, you must first be sure that the coating has tacked off before recoating. Always remember that colder temperatures will require more cure time for the product before recoating can commence.
- 7) **CLEANUP:** Use xylene
- 8) **FLOOR CLEANING:** Test all cleaners in a small area to determine compatibility.
- 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. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

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. Any use or application other than recommended herein is the sole responsibility of the user. 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. (EPOXYDOC LLC)**

SLIP AND FALL INFORMATION IMPORTANT PLEASE READ

OSHA and the ADA (American Disabilities Act) have set standards for pedestrian surfaces concerning slip resistance. These standards are enforceable and should be taken seriously by professional installers and end users. Most floor coatings are not slip resistant. **EpoxyDoc recommends the use of a slip resistant additive in all flooring systems.** Any floor coatings exposed to water, oil, dirt, grease, and or any other potential slip hazard material should contain a slip resistant additive. EpoxyDoc or its sales agents shall have no liability and will not be responsible for incidents or injuries incurred in a slip and fall accident. It is the end user's and professional installer's responsibility to provide a flooring system that meets current safety standards for slip resistant floors when using EpoxyDoc flooring systems.

RESPIRATORY AND SKIN PROTECTION

- 1) Use adequate ventilation when installing coatings.
- 2) Use protective clothing and gloves.
- 3) Use appropriate respirator during application in confined areas.
- 4) Avoid contact with skin
- 5) Some people may be allergic to floor coating resins and vapors