

TECH DATA - DOC 102

WATER BASE EPOXY PRIMER



PRODUCT DESCRIPTION:

DOC 102 is a two component water based epoxy coating that rival some solvent based products. DOC 102 has superb chemical resistance, abrasion resistance, and substrate penetration. DOC 102 is a perfect primer before applying other epoxy products. This product has a tack free time of about 2-3 hours and can support light traffic in as little as 6-12.

RECOMMENDED FOR:

Uses include priming concrete before applying epoxies and urethanes or as a stand-alone product for garages, warehouses, basements, storage rooms, showrooms, and closets. Use this product where USDA Food & Beverage requirements must be maintained. DOC 102 is suitable over concrete, wood, and masonry. This product can withstand exposure to many common solvents and chemicals and has no VOC'S. This product is not UV stable. If exposed to sunlight, apply a suitable clear top coat.

SOLIDS BY WEIGHT:

Mixed = 43% (+, - 2%)

SOLIDS BY VOLUME:

Mixed = 40% (+, - 2%)

VOLATILE ORGANIC CONTENT:

(VOC = 140 g/L)

STANDARD COLORS:

White, black, light gray, medium gray, dark gray, tan, beige, tile red, safety yellow, and amber clear. NOTE: The clear is not water clear and is not suitable for top coating over previously color coated floors. The clear is suitable as a primer or concrete sealer only.

RECOMMENDED FILM THICKNESS:

5 -7 mils per coat wet thickness (yields 2-3 mils dry)

COVERAGE PER GALLON:

225 to 300 square feet @ 5-7 mils wet thickness

PACKAGING:

1 gallon kit 4:1, (Part A .80 & Part B .20)

5 gallon kit 4:1, (Part A 4 gal & Part B 1 gal)

MIX RATIO:

4:1. Each 1 gallon kit comes as Part A and Part B. Use only one gallon kit at any one time. Mixed product has a 1-1.5 hour pot life

ADHESION:

425 psi

SHELF LIFE:

1 year in unopened containers

FINISH CHARACTERISTICS:

Satin gloss

CURE TIME: (70F)

pot life – 1 gallon volume2.0 hours
tack free (dry touch).....2-4 hours
recoat or topcoat.....4-6 hours
light foot traffic...6-12 hours
full cure (heavy traffic)2-5 days

APPLICATION TEMPERATURE:

55-90 degrees F with relative humidity below 75%

THINNING:

Thinning the first coat is acceptable to achieve better penetration of the concrete surface. . When applying a second coat use full strength. Thin up to 1 quart of water. Mix part A & B first. Add water slowly and mix thoroughly.

TOPCOAT:

Optional – Many products are suitable as topcoats including multiple coats of this product. For added chemical resistance, color stability or UV stability, topcoat with a suitable aliphatic urethane.

LIMITATIONS:

- 1) Color or gloss may be affected by humidity, low temperatures, chemical exposure or sodium vapor lighting.
- 2) Product will yellow in the presence of UV light
- 3) For best results use a 1/4" or 3/8" nap roller.
- 4) Slab on grade requires moisture barrier DOC 130
- 5) Substrate temperature must be 5°F above dew point.
- 6) All new concrete must be cured for at least 30 days
- 7) Product color will vary from batch to batch. Use same batch for entire job.
- 8) Improper mixing or applying this product to thick may result in product failure
- 9) Light or bright colors (white, safety colors etc.) may require multiple coats to achieve an even color depending on the substrate. Usually 2 coats.
- 10) Physical properties listed on this technical data sheet are typical values and not specifications.

MIXING & APPLICATION INSTRUCTIONS

1) **PRODUCT STORAGE:** Store product in an area that will acclimate material to normal room temperature before using. Continuous storage should be between 60 and 90 degree F. Keep from freezing.

2) **SURFACE PREPARATION:** Surface preparation is best achieved by shot blast or mechanical grinding. Acid etching can be used in smaller areas like garages to achieve proper profile as well. All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. Old sealers and coatings should be removed first by shot blast or grinding before applying DOC 102.

A test should be made to determine that the concrete has an appropriate vapor barrier. 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 it is my likely safe to proceed. This product can be applied to a damp floor as long as there are no standing puddles.

3) **PRODUCT MIXING:** This product comes pre-packaged by weight. Kits should be mixed in their entirety. If partial kits are to be used, refer to page one of this tech data sheet for mix ratios. After part A & 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 is an emulsion product and should be mixed well before using. Mix for 3 minutes.

4) **PRODUCT APPLICATION:** You will need a clean bucket, roller, 3/8 inch roller cover, mixing paddle, cut brush and optional squeegee. Cut in all edges and corners first. Before applying mix to floor, dampen the surface lightly with a pump up sprayer just enough to turn the concrete dark. Do not puddle. Roll out the epoxy at approx. 250 SF/gallon. For faster results pour mixture onto the floor, and squeegee to distribute the epoxy evenly. Back roll the epoxy using a 3/8 inch roller. For best results apply 2 coats. If applying other topcoats 1 application will be sufficient. First coat can be diluted using 20% water ratio to mixed material.

- Maintain temperatures within recommended ranges during application and curing.
- When humidity is present, apply epoxy within parameters shown.
- When pot life is reached and epoxy starts to get sticky or hard to apply, stop and mix a new batch.
- A skid resistant additive may be added into the mixture to improve skid resistance.
- Applications made at different times and conditions may show slight variations in color and gloss.

5) **RECOAT OR TOPCOATING:** To recoat or topcoat this product, make sure epoxy is dry and tack free to touch. Cure times listed on the first page are reliable guidelines to follow. Always test the coating before recoating or topcoating. It is best to wait up to 24 hours. Always remember that colder temperatures will require more cure time. If a blush is present, it must be removed prior to top coating or recoating. A standard type detergent cleaner can be used to remove any blush. 100% solids epoxies and urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product.

6) **CLEANUP:** Soap and water before cure or use a suitable solvent.

7) **FLOOR CLEANING:** Some cleaners may affect the color of the floor installed. Test each cleaner in a small area before proceeding.

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 first page). 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. It is always a good idea to add a slip resistant additive to add slip resistance to the floor.

**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.

Current coefficient of friction required by the ADA is:

- 1) .6 for level surfaces
- 2) .8 for ramps

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