TECH DATA - DOC 301
REPAIR MORTAR

EPOXY FLOOR COATINGS
Epoxies - Urethanes - Sealers

PRODUCT DESCRIPTION:
DOC 301 is a three component 100% solids epoxy mortar designed for applications where excellent wear characteristics and strength are required. DOC 301 is used to repair holes in concrete that has delaminated or loosened. It is an excellent repair product when used along the front edge of garage entry ways where water damage has occurred. After repairs are made a suitable epoxy top coat can be applied.

RECOMMENDED FOR:
Heavy traffic areas, forklift traffic, warehouses, hangers, garages and any concrete that needs repair. NOT RECOMMENDED for immersion applications for acids and chemicals.

SOLIDS BY WEIGHT:
100%
VOLATILE ORGANIC CONTENT:
Less than 3.5 g/l
STANDARD COLORS:
light gray, red, dark gray and natural.
RECOMMENDED THICKNESS:
1/8" to 1/2"
COVERAGE PER UNIT:
21.54 sq. ft. @ 1/4" and 43.1 sq. ft. @ 1/8"
PACKAGING
UNIT = 9# part A, 2.2# part B, 50# aggregate part C. A bulk is approximately five units (all weights approximate)
MIX RATIO:
*UNIT = 1.25 -1 gallons part A to .25 gallons part B plus 50# aggregate. (weight and volumes approximate)
SHELF LIFE:
2 years in unopened containers
FLEXURAL STRENGTH:
15,150 psi ASTM D790
COMPRESSIVE STRENGTH:
11,150 psi ASTM D695
TENSILE STRENGTH:
6,800 psi ASTM D638
ULTIMATE ELONGATION:
4.65%
IMPACT & ABRASION RESISTANCE:
excellent
HEAT DEFLECTION TEMP.:
70.5 degrees C ASTM D648
VISCOSITY:
Part A = 450-750 cps, Part B = 290-500 cps

CURE SCHEDULE:
pot life (.45 cu. ft. mix) ……30-40 minutes @ 70^0 F
recoat or topcoat.....……...7-8 hours @ 70 degrees F
light foot traffic...…….14-16 hours @ 70 degrees F
full cure (heavy traffic)... …….2-7 days @ 70 degrees F
APPLICATION TEMPERATURE:
55-90 degrees F
:
PRIMER:
None required
TOPCOAT:
Can be used as a standalone repair mortar or top coated with epoxies and urethanes.
LIMITATIONS:
1) Color stability may be affected by environmental conditions such as high humidity or chemical exposure.
2) Epoxy products are not UV color stable and may discolor if exposed to certain types of light such as sodium vapor lighting.
3) Colors may vary from batch to batch due to variations in the silica filler.
4) Mortar colors are not from our standard color chart.
5) Substrate temperature must be 5^0 F above dew point.
6) For chemical exposure areas, we recommend a suitable topcoat to reduce porosity and chemical migration.
7) All new concrete must be cured for at least 30 days prior to application.
8) See page 2 for application instructions.
9) Test data based on neat resin.
10) Physical properties are typical values and not specifications.
11) See page 3 for limitations of our liability and warranty.

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MIXING AND APPLICATION INSTRUCTIONS

1**) PRODUCT STORAGE:**. Continuous storage should be above 55^0 F to prevent product crystallization. Bring product to room temp before applying.

2) **SURFACE PREPARATION:** All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. Areas should be cleaned and mechanically ground for proper bonding of material to concrete. All large cracks should be V cut and filled with quick crack filler. 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) **PRIMER:** No primer is necessary. This material is self priming. However, any suitable primer can be used.

4) **PRODUCT MIXING:** It is important that part A and part B be mixed together first. Mix in an oversized container thoroughly and until streak free. After the liquids are thoroughly mixed, add aggregate slowly while mixing. Mix with slow speed mixing equipment such as a jiffy mixer. Be sure that the mixture is blended for at least 3 minutes or until streak free. Failure to mix properly may result in less than desired results.

5) **PRODUCT APPLICATION:** Apply the mixed material at 1/8 to 1/2 inch thickness. Apply the material with a hand trowel or other suitable application equipment. Do not over-trowel the material as this may cause isolated blisters to form. Maintain temperatures within the recommended ranges during the application and curing process.

6) **RECOAT OR TOPCOATING:** No recoating or topcoating is necessary. However, if you opt to topcoat the applied mortar, allow it to cure before topcoating. See cure schedule above. Epoxies and urethanes can be applied for a more finished look.

7) **CLEANUP:** Use xylene

8**) FLOOR CLEANING:** Test each cleaner in a small area, utilizing your cleaning technique.

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