TECH DATA - DOC 140
EPOXY RIVER ROCK BINDER

EPOXY FLOOR COATINGS
Epoxies - Urethanes - Sealers

PRODUCT DESCRIPTION:
DOC 140 is a two component 100% solids epoxy system designed for use as a river rock binder. The formulation viscosity is specifically suited for binding together larger aggregate to form a decorative matrix.

RECOMMENDED FOR:
Recommended for use as a binder with larger aggregates such as river rock.

SOLIDS BY WEIGHT:
100%
SOLIDS BY VOLUME:
100%
VOLATILE ORGANIC CONTENT:
0 pounds per gallon
STANDARD COLORS:
Clear – gardner color 1-2
RECOMMENDED FILM THICKNESS:
Variable dependent on aggregate used
COVERAGE PER GALLON:
Variable dependent on aggregate used and thickness of application
PACKAGING INFORMATION
3 gallon kits (3.0 gallons net approximately)
15 gallon kits (15.0 gallons net approximately)
MIX RATIO:
2:1 9.35 pounds part A (1 gallon) to 4.0 pounds part B (.50 gallons)
SHELF LIFE:
1 year in unopened containers
FINISH CHARACTERISTICS:
Gloss (60 to 90 @ 60 degrees
ABRASION RESISTANCE:
Taber abraser CS-17
FLEXURAL STRENGTH:
7,400 psi ASTM D790
COMPRESSIVE STRENGTH:
11,600 psi ASTM D695
TENSILE STRENGTH:
7,400 psi ASTM D638
ADHESION:
390 psi
VISCOSITY:
Mixed = 2,000-4,000 cps (typical)
ULTIMATE ELONGATION:
2.9%
GARDNER VARIABLE IMPACTOR:
50 inch pounds direct – passed

HARDNESS:
Shore D = 80
CURE SCHEDULE:
pot life – 150 gram mass ……17-27 minutes @ 70° F
tack free (dry to touch)……...……4-6 hours @ 70° F
recoat or topcoat.....……..……8-10 hours @ 70°F
light foot traffic...……10-16 hours @ 70°F
full cure (heavy traffic)... ……. 2-5 days @ 70°F

APPLICATION TEMPERATURE:
60-90 degrees F

PRIMER:
Optional, dependent on substrate condition.

TOPCOAT:
Optional – NP321/325 aliphatic urethanes directly over the river rock matrix for an aggressive texture or NP137M in for a smoother finish, with or without a clear urethane topcoat.

LIMITATIONS:
1) Color stability or gloss may be affected by environmental conditions such as high humidity, chemical exposure, UV exposure or exposure to lighting such as sodium vapor lights.
2) Colors may vary from batch to batch. Therefore, use only product from the same batch for an entire job.
3) Although this product has good UV color stability, as with all epoxy products, this product is not UV color stable. Clear aliphatic urethane topcoats reduce (UV light) color changes.
4) Substrate temperature must be 5°F above dew point.
5) All new concrete must be cured for at least 30 days prior to application.*See reverse side for application instructions.
6) Physical properties are typical values and not specifications.
7) See page 3 for limitations of our liability and warranty.

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MIXING AND APPLICATION INSTRUCTIONS

1) **PRODUCT STORAGE:** Store product at normal room temperature before using. Continuous storage should be between 60 and 90^0 F. Low temperatures or 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. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

3) **PRODUCT MIXING:** This product has a mix ratio of 9.5# part A to 4.0# part B. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. 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. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be used as a binder for the river rock binder application. Improper mixing may result in product failure.

4) **PRIMING:** A suitable primer is optional and may be required dependent on substrate condition.

5) **PRODUCT APPLICATION:** The mixed material can be applied by any suitable method and is dependent on application thickness desired or size of aggregate used. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. This product can be used with various aggregate sizes to achieve a variety of application patterns. When using as a binder, always evaluate performance parameters with a test area which is dependent on aggregate size and thickness, prior to application. Contact your representative for details as necessary.

6) **RECOAT OR TOPCOATING:** If you opt to recoat or topcoat 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 or topcoating can commence. 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 must be removed prior to topcoating or recoating. Many epoxy coatings and urethanes are compatible for use as a topcoat for this product.

7) **CLEANUP:** Use xylol

8) **FLOOR CLEANING:** Caution! Some cleaners may affect the color. Test each cleaner in a small area. 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. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

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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