

COHILLS PRO SERIES® 510 EPOXY BINDER-100% SOLIDS

Cohills Pro Series® 510 Epoxy Binder is a two component , high build epoxy coating for Cohills Color and Stain Systems. This all purpose epoxy resin is characterized as an excellent general purpose material with good clarity and color retention. It is essentially odorless and can therefore be used in occupied areas and is USDA approved for use in food handling applications.

Product Availability & Coverage

- Cohills Pro Series® 510 Epoxy Binder is available in 1.25 gallon kits (1 gallon Part A-1 quart Part B)
- Coverage is approximately 100 sq. ft. per kit (coverage will vary depending on mil thickness)

Surface Preparation & Application

Concrete must be structurally sound and free of defects and contaminants. New concrete should be cured a minimum of 28 days. Do not mix until the surface to be coated has been prepared. Mix 4 parts by volume Part A with 1 part by volume Part B. Use a low speed power mixer. Mix for a full 3 minutes. Both parts are light in color and have the same appearance when poorly mixed as when well mixed. Best results are achieved if Parts A and B are maintained at 70°F - 80° F for at least 24 hours before use. The working time for a 1.0 gallon mix of Cohills Pro Series® 510 Epoxy Binder is approximately 30-40 minutes at 70° F. Higher temperatures and/or larger quantities will have shorter working times.

Temperature of substrate should be between 55°F and 90° F. For temperatures below 55° F use low temperature hardener. For trowelled systems, add 5 - 6 parts of clean, dry, graded silica sand. Screed to specified thickness and finish by hand or power trowel. For coating or slurry applications, use a notched squeegee to meter Cohills Pro Series® 510 Epoxy Binder to the desired thickness. Then, back roll with a phenolic core medium nap roller if necessary. Cohills Pro Series® 510 Epoxy Binder can be opened to light foot traffic in approximately 18 hours. Full chemical cure is achieved in approximately 5 days at 74° F.

Thoroughly clean skin with soap and water. Clean tools and equipment immediately with MEK, Xylene, or proprietary epoxy thinner. CAUTION: THESE SOLVENTS ARE FLAMMABLE. KEEP AWAY FROM ALL SOURCES OF IGNITION. COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR SAFE HANDLING.

Precautions

- DANGER: FLAMMABLE LIQUID
- Recommended for use only by professionals.
- Avoid applications on surfaces without effective vapor barriers.
- Cohills Pro Series® 510 Epoxy Binder should be used in well ventilated areas.
- Prior to use or handling of material consult Material Safety Data Sheet.
- KEEP OUT OF REACH OF CHILDREN

CHEMICAL RESISTANCE

REAGENT	RATING	REAGENT	RATING
Acetic Acid - 5%	L	Lactic Acid - 15%	R
Acetone	L	Methyl Ethyl Ketone	L
Bleach	L	Nitric Acid - 10%	R
Citric Acid - 30%	R	Skydrol	R
Crude Oil	R	Sodium Hydroxide - 50%	R
Diesel Fuel	R	Sulfuric Acid - 20%	R
Ethylene Glycol	R	Toluene	R
Fatty Acids	L	Urea	R
Gasoline	R	Vinegar	L
Hydrochloric Acid - 15%	R	Xylene	R
R - Recommended for continuous service		L - Limited recommendation, occasional spills	

PERFORMANCE PROPERTIES

Tensile Strength ASTM-D-638	8500 psi
Elongation ASTM-D-638	5.5%
Adhesion to metal	2500 psi
Adhesion to concrete ACI Committee 403	350 psi (concrete fails)
Hardness ASTM-D-2240	80 (Shore D)
Abrasion Resistance ASTM-C-501	35-40 mg loss (CS-17 wheel, 1 kg load, 1000 cycles)
Service Temperature MIL-D-3134F	160 ° F (immersion) 185 ° F (dry heat)
Impact Resistance MIL-D-3134F SS 4.7.3	Withstands 16.ft./lbs. no cracking, de-lamination or chipping
Indentation MIL-D-3134 SS 4.7.4	Withstands 2,000 lbs./sq. in. for 30 min. without indentation
Elevated Temperature Resistance MIL-D-3134F SS 4.7.5	No slip or flow at required temperatures at 158° F
Water Absorption ASTM-D-670-63 (24 hr. immersion)	0.10% maximum
Flexural Strength ASTM-D-790	8,000 psi
Compressive Strength ASTM-D-695	11,000 psi

WARRANTY

Manufacturer warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed and applied in accordance with manufacturer recommendations. If any product fails to meet this warranty, the liability of manufacturer **and/or** distributor will be limited to replacement of any non-conforming material if notice of such non-conformity is supplied to manufacturer within one (1) year of delivery of materials. Manufacturer **and/or** distributor may in its discretion refund the price received in lieu of replacing the material. No customer, distributor, or manufacturer representative is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of manufacturer. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Manufacturer **and/or** distributor reserve the right to inspect the non-conforming material prior to replacement. **EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND MANUFACTURER NOR DISTRIBUTOR SHALL HAVE LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

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