

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

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.

» Application

Temperature of substrate should be between 55°F and 90° F. For temperatures below 55° F use low temperature hardener. For trowelled

» Application Continued

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 USE BY PROFESSIONALS.**
- **NEVER APPLY AROUND HEAT SOURCES SUCH AS WATER HEATERS, FURNACES, ETC.**
- **AVOID CONTACT WITH SKIN AND EYES.**
- **READ MATERIAL SAFETY DATA SHEET BEFORE USING.**
- **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

» 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

The following warranty is made in lieu of all other warranties, either expressed or implied. This product is manufactured of selected raw materials by skilled technicians. Neither the seller nor manufacturer has any knowledge or control concerning the purchaser's use of this product and no warranty is made as to the results of any use. The only obligation of either seller or manufacturer shall be to replace any quantity of this product which is proved to be defective and must be received in writing within (1) year from date of shipment. Neither seller nor manufacturer assumes any liability for injury, loss or damage resulting from use of this product.

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