

COHILLS PRO SERIES® 450 URETHANE TOPCOAT

Cohills Pro Series® 450 Urethane Topcoat is a two component, chemical resistant polyurethane coating. The high gloss finish offers excellent abrasion resistance, chemical and stain resistance, and color retention. Cohills Pro Series® 450 can be used equally well on vertical or horizontal surfaces. It is ideal for concrete floors and walls in warehouses, storage facilities, aircraft hangers, animal housing, and vehicle maintenance facilities. Cohills Pro Series® 450 Urethane Top Coat is also used as a finish coat option on most Cohills Systems to improve stain resistance, wear and chemical resistance.

Product Availability & Coverage

- Cohills Pro Series® 450 Urethane Top Coat is available in 1.5 gallon (1 gallon Part A-.5 gallon Part B) and 3 gallon kits (2 gallon part A-1 gallon Part B)
- Available as an electrostatic dissipating finish (Cohills Pro Series® 450 ESD), which provides a conductive finish in the range of 1,000,000 to 100,000,000 ohms of resistance.
- Coverage is approximately 250-300 sq. ft. per gallon per coat.

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 2 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 - 80 F° for at least 24 hours before use. The working time for a 1.5 gallon mix of Cohills Pro Series® 450 Urethane Top Coat is approximately 40 minutes at 70 F. Higher temperatures and/or larger quantities will have shorter working times.

Temperature of substrate should be between 55° and 90° F. For temperatures below 55° F use low temperature hardener. Spread with roller, brush, or squeegee evenly at a spread rate of 250-300 sq. ft. per gallon. Do not allow to puddle. A second coat is recommended and should be applied within 24 hours from when you applied the first coat. At 70° F Cohills Pro Series® 450 Urethane Top Coat can be opened up to light traffic in 16 hours. 10-20 mil film 10-14 hours, Full chemical cure at 74 F° is achieved in 5 days and at 50° F is achieved in 14 days.

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® 450 Urethane Top Coat 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

PERFORMANCE PROPERTIES

| | | |
|-------------------------------------|---------------------------|---|
| Adhesion to concrete | ACI Committee 403 | 200 psi (concrete fails) |
| Abrasion Resistance | ASTM-C-501 | 30 - 40 mg loss (CS-17 wheel, 1kg load, 1000 cycles) |
| Service Temperature | MIL-D - 3134F | 160° F (immersion) 250° F (dry heat) |
| Impact Resistance | MTI-D-3134F §4.7.5 | Withstands 16ft./lbs. no cracking, delaminating or chipping |
| Elevated Temperature Resistance | MIL-D-3134F§4.7.5 | No slip or flow at required temperatures at 158° F |
| Water absorption (24.hr. immersion) | ASTM-D-670-63 | 0.10% maximum |

CHEMICAL RESISTANCE

| REAGENT | RATING | REAGENT | RATING |
|-------------------------|--------|------------------------|--------|
| Acetic Acid - 5% | L | Iodine | R |
| Acetone | L | Lactic Acid - 15% | R |
| Betadine | R | 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

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 recommendations of Key. 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.

Cohills Building Specialties, Inc.
 3825 East Anne Street
 Phoenix, Az. 85040
 Telephone: 602-266-0462
 Customer Service: 877-709-2220
 www.cohills.com

Cohills Pro Series® 450 Urethane Topcoat available through: