

**EPOXY 100**
Self Leveling Epoxy Coating

Proline's Pro-Epoxy 100 is a unique, self-leveling epoxy coating designed as a high build, clear or pigmented topcoat for interior floor applications. It can also be used over interior polymer concrete finishes, where a smoother, easier to clean surface is desired. It is a versatile, high-grade epoxy material used for a variety of job applications and provides an attractive gloss appearance. For the best gloss retention and UV stability, it is recommended to apply Proline's Poly HD Urethane as a topcoat.

TYPICAL USES: Used as a basecoat and/or topcoat over warehouse floors, airport hangars, and over decorative Color Quartz or other aggregate and Color Flake interior floor applications.

FEATURES & BENEFITS:

- Self-Leveling
- Low Odor
- Excellent Chemical Resistance
- 100% Solids
- No VOCs (Solvent Free)
- Meets USDA Requirements
- High Gloss Appearance
- Excellent Bond Strength
- Environmentally Friendly

CHEMICAL PROPERTIES*:

	Result
Viscosity, Mixed (cps)	300 - 600
Solids by Volume	100%
Volatile Organic Compounds	0 lbs/gal
Mix Ratio by Volume	2A Resin : 1B Hardener
Gel Time at 77° F (25° C), 150g	25 - 30 minutes
Recoat Time	12 - 24 hours
Tack-Free Time	6 - 8 hours
Walk on Time (light foot traffic)	12 - 18 hours
Return to Service (vehicle traffic)	72 hours
Full Cure	7 days
Coverage Rate per Gallon	80 - 120 sqft @ 13 - 20 mils DFT
Recommended Application Temperature	≥ 50° F (10° C)
Odor	Low
Color	Clear, Standard Colors
Shelf Life (unopened containers)	12 months

*Properties were tested at 70° F (21° C)

TYPICAL PHYSICAL PROPERTIES*:

	Test	Result
Hardness (Shore D)	ASTM D-2240	85
Tensile Strength (psi)	ASTM D-638	7000 - 7500
Flexural Strength (psi)	ASTM D-790	17,900
Elongation (%)	ASTM D-638	4.5
HDT	ASTM D-648-264	120° F
Compressive Strength	ASTM D-695	10,100
Water Absorption, gain in 24 hours (%)	ASTM D-570	<1

*Properties were checked on dry films at 5-6 mils thick, air-dried for 7 days

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MOISTURE VAPOR TESTING: All concrete floors not poured over a proper moisture barrier, are subject to possible moisture vapor transmission or hydrostatic pressure problems, which can cause a coating system to blister or fail. Before applying a coating system over a concrete floor which is on-grade or below grade, the customer should be informed of this potential problem and given the option to have a qualified moisture testing company perform calcium chloride test to give the proper recommendations. Proline's Vapor Block Epoxy can be used as a primer to bring down moisture pressure. Proline does not warranty against moisture problem failures.

SURFACE PREPARATION: The surface must be clean and sound, free from oil, dirt, waxes and any other contaminants that may interfere with bonding. Some surface preparation methods include shot blasting and scrubbing with detergent or acid washing, neutralizing and rinsing. Shot blasting is recommended for commercial or industrial jobs. Apply Pro-Epoxy 100 over a dry surface.

MIXING INSTRUCTIONS: The mixing ratio for Pro-Epoxy 100 is 2 parts A to 1 part B. **Colors** - Check the batch numbers on Part A (Resin) containers. If the batch numbers are not all the same, then mix all containers of Part A Resin together prior to achieve a uniform color. Mix part A and B together (only the amount that can be used within 10 – 15 minutes) using a low speed drill motor and mixing paddle for 3 – 5 minutes, scraping the sides and bottom of the container. After mixing, immediately pour the entire bucket in a thin row next to the starting edge and begin spreading using a metal or rubber squeegee followed by a 1/4" – 3/8" nap paint roller. **Important: Use a lint free or micro fiber roller. Ensure the roller cover is lint free. One method to remove loose lint is by wrapping the roller with tape. Any loose roller hairs can result in surface defects. For the best results, mix only 3 gallons of material or only what can be applied within 10 – 15 minutes. Do not allow the Pro-Epoxy 100 to sit in the bucket for more than 5 minutes after mixing.**

APPLICATION INSTRUCTIONS: Pro-Epoxy 100 can be applied by roller, brush or metal or rubber squeegee. When using a squeegee it is best to follow immediately behind with a 1/4" – 3/8" nap paint roller to even out any squeegee marks. Keep a wet edge and do not roll into an area once it has begun to set up to avoid color differences. Temperature and humidity conditions affect the cure and tack free times of this material. Warm, dry conditions speed the cure and cool, damp conditions will lengthen the cure time. Recoat within 12 – 24 hours to achieve the best chemical bond. After 24 hours it will be necessary to sand the Pro-Epoxy 100 with an orbital sander and #100 grit sandpaper to achieve a physical bond.

For large applications: It is important not to use the same mixing bucket for more than 1 hour and to change roller covers as needed. This will avoid leaving lumps on the floor from material starting to set up in the bucket and on the roller.

NOT RECOMMENDED FOR: Do not apply to concrete less than 30 days old.

CHEMICAL RESISTANCE (3 week immersion)

Reagent	% weight gain (loss)	Reagent	% weight gain (loss)
Xylene	E	Sythetic Gasohol	E
Toluene	E	5% Detergent Solution	E
1,1,1 Trichloroethane	E	10% Sodium Hydroxide	E
MEK	G	50% Sodium Hydroxide	E
EB (Ethylene Glycol Monobutyl Ether)	E	10% Sulfuric Acid	E
Ethyl Alcohol	E	70% Sulfuric Acid	E
Water (deionized)	E	10% Hydrochloric Acid	E
Methyl Alcohol	G	5% Acetic Acid	G
Skydrol I	E	10% Acetic Acid	F

E = Excellent, G = Good, F = Fair

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COLOR OPTIONS: Clear and standards colors: Custom colors are available by special order.

HOW SUPPLIED: Pro-Epoxy 100 is packaged in 1.5, 3, 15 gallon kits for convenient use in a 2:1 mixing ratio.

STORAGE: 50°F (10°C)

SLIP/FALL PRECAUTIONS: Proline recommends using slip resistant granules in all outdoor applications where the Poly HD Urethane will be used as a topcoat sealer and on indoor applications that may be exposed to water, oil or other spills that may cause a slippery environment. Aluminum oxide granules #80 grit or courser may be broadcast into the prime coat to achieve the amount of slip resistance desired. It is the end user's responsibility to determine the suitability of a coating for their particular application. Proline nor its sales people will not be responsible for injury incurred in a slip/fall accident.

SAFETY PRECAUTIONS: Health Considerations: Consult the Proline Safety Data Sheets This chemical system requires the use of proper safety equipment and procedures. Please follow the Proline product SDS and Safety Manual for detailed information and handling guidelines.

For Your Protection: The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Proline. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Proline will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors.

Because of numerous factors affecting results, **Proline makes no warranty of any kind, express or implied**, other than that the material conforms to its applicable current Standard Specifications. Proline hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of Proline for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

NOTES: Experimentation of colors and application methods is recommended, as the color of the actual product may differ. Test sections must be produced on each concrete surface. Even in a controlled environment, cements, aggregates, water content, and concrete curing methods will contribute to different results. Final color approval should be made with actual material and sealer selection; however, variation of even mock-up samples due to reproduction limitations should be expected.

CAUTION: KEEP OUT OF REACH OF CHILDREN. Before using or handling, read the Safety Data Sheet and Warranty. DO NOT TAKE INTERNALLY. Avoid contact with skin and eyes. Use only with adequate ventilation and use a respirator when exposure levels are above applicable limits.

WARRANTY: This product is not for public use and is intended for use by licensed contractors, experienced and trained in the use of these products. It is warranted to be of uniform quality within manufacturing tolerances. The manufacturer has no control over the use of this product, therefore, no warranty, expressed or implied, is or can be made either as to the affects or as results of such use. In any case, the manufacturer's obligations shall be limited to refunding the purchase price or replacing material proven defective. The end user shall be responsible for determining product's suitability and assumes all risks and liability.