



## PRO-ASPARTIC 70 POLYASPARTIC TOPCOAT

**DESCRIPTION:** Proline's Pro-Aspartic 70 is a two component, 70% solids, polyaspartic, available in clear and pigmented. Pro-Aspartic is designed to be used as a topcoat for many of the Proline systems. It provides a non-yellowing, high gloss, fast drying, and medium-build finish with outstanding wear resistance. It can also be used over interior polymer concrete finishes, where a hi-gloss, easier to clean, and chemical resistant surface is desired. It is a versatile, high-grade material used for a variety of job applications and provides an attractive gloss appearance.

**TYPICAL USES:** Used as a basecoat and/or topcoat over warehouse floors, airport hangars, restaurant floors, industrial floors, food processing facilities, automotive service areas, and over decorative Color Quartz or other aggregate and Color Flake interior floor applications. Also used as topcoat over decorative concrete overlays.

### FEATURES & BENEFITS:

- Stain Resistant
- UV Stable
- USDA/FDA Compliant
- 70% Solids
- Fast Drying
- Excellent Chemical Resistance
- High Gloss Appearance
- Excellent Bond Strength

### CHEMICAL PROPERTIES\*:

### Results

Viscosity, Mixed (cps)	405 - 510
Solids by Volume	70%
Volatile Organic Compounds gm/l	<100
Mix Ratio by Volume	1A Resin : 1B Iso
Gel Time at 77° F (25° C), 150g	20 - 25 minutes
Recoat Time	2 - 4 hours
Tack-Free Time	1 - 3 hours
Walk on Time (light foot traffic)	4 - 6 hours
Return to Service (vehicle traffic)	24 hours
Full Cure	7 days
Coverage Rate per Gallon	150 - 400 sq.ft.
Recommended Application Temperature	≥ 40° F (4° C)
Odor	Solvent
Color	Clear, Standard Colors
Shelf Life (unopened containers)	12 months

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



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### TYPICAL PHYSICAL PROPERTIES\*:

	Test	Result
Hardness (Shore D)	ASTM D-2240	76
Tensile Strength	ASTMD412	6000
Compressive Strength	ASTM0695	9700
	*With Color Quartz	14600
	*With Deco Flakes/Chips	12500
Adhesion on steel	ASTM D3359	5
Adhesion on concrete	ASTM D3359	5
Impact Resistance in lbs direct/reverse		>250 psi (concrete fails)
Abrasion Resistance	(ASTM D4060)	36 mgs
Heat resistance (max)		220°F
Gloss @60 Degree		90

**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-Aspartic 70 over a dry surface.

**MIXING INSTRUCTIONS:** The mixing ratio for Pro-Aspartic 70 is 1 part A to 1 part B. Mix both components separately for 1 minute prior to combining them. **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 20-25 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 phenolic core, solvent resistant, 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 20 minutes.**

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**APPLICATION INSTRUCTIONS:** Pro-Aspartic 70 can be applied by roller, brush 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. Roll in a multi directional method (north, south, east, west) to ensure proper coverage. Keep a wet edge and do not roll into an area once it has begun to set up to avoid color differences. Do not over roll the material. Temperature and humidity conditions affect the cure and tack free times of this material. Warm, humid conditions speed the cure and cool, dry conditions will lengthen the cure time. Usually can be recoated within 2-4 hours. Be sure to recoat coat within 20 hours to achieve the best chemical bond. After 20 hours it will be necessary to sand the Pro-Aspartic 70 with an orbital sander and #120 - 150 grit sandpaper to achieve a physical/mechanical 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

Xylene	5
Toluene	5
Ethanol	5
MEK	4
Nitric Acid (10% HN03)	5
Acetone	4
Mustard	5
Ketchup	5
Methel Alcohol	5
Red Wine	5
Skydrol	5

#### Reagent

Muriatic Acid (31.5% HCL)	5
Gasoline	5
Bleach (Sodium Hypochlorite)	5
50% Sodium Hydroxide	5
50% Sulfuric Acid	5
93% Sulfuric Acid	1
Brake Fluid	5
Blood and Body Fluids	5
Iodine Solution	5
Transmission Fluid	5
Vinegar	5

**KEY - 5 = Best (no effect), 4 = Softens (recovers), 3 = Softens (no recovery), 2 = Blisters (no recovery), 1 = Worst, S = with stain**

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

**HOW SUPPLIED:** Pro-Aspartic 70 is packaged in 2-gallon and 10-gallon kits for convenient use in a 1:1 mixing ratio.

**STORAGE:** 50°F (10°C)

**SLIP/FALL PRECAUTIONS:** Proline recommends using slip resistant granules in all outdoor applications where the Pro-Aspartic 70 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.



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**SAFETY PRECAUTIONS: Health Considerations: Consult the Proline Material Safety Data Sheets** This chemical system requires the use of proper safety equipment and procedures. Please follow the Proline product MSDS 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.

### **Disclaimer**

PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER OF PROLINE, SHALL BE LIMITED SOLELY TO THE REPLACEMENT OF ANY DEFECTIVE MATERIAL OR A PAYMENT BY THE MANUFACTURER IN AN AMOUNT EQUAL TO THE COST OF THE ORIGINAL MATERIAL.

**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 re-placing material proven defective. The end user shall be responsible for determining product's suitability and assumes all risks and liability.