

Technical Data

FGP Aspartic 85-Standard

Physical Properties

DESCRIPTION

Floorguard Products® FGP-Aspartic 85 is a two component, 85% solids, solvent based polyaspartic aliphatic coating. **Aspartic 85** exhibits excellent abrasion and chemical resistance, is UV Stable, and has a beautiful gloss appearance. A major benefit of using **Aspartic 85** is the fast curing characteristic, which is beneficial for time sensitive jobs.

Recommended for:

Suitable for areas where installation down time is very limited and also for areas where a thin/medium build clear coat is desired.

Considerations

- **Avoid applications on surfaces without effective vapor barriers.**
- **Surfaces must be sound and without contaminants**
- **Application Temperature 30-90°F with relative humidity below 90%**
- **Due to quick cure rate and dry time, it's suggested to thoroughly evaluate the product before using**

Chemical Resistance

Reagent	Rating
Acetic Acid-5%	C
Xylene	C
Mek	A
Ethyl Alcohol	B
Skydrol	C
50% Sodium Hydroxide	E
10% Sulfuric Acid	C
10% Hydrochloric Acid	C
1,1,1 trichloroethane	B
Methanol	B

A-not recommended, B-2 hour term splash spill,
C-8 hour term splash spill, D-72 hour immersion,
E-long term immersion

Solids by Weight	85% (±3%)
Solids Content, % vol	81% (±3%)
VOC	<160 grams per liter
Colors	Clear or Pigmented. See Floorguard Products® Color Chart
Recommended Film Thickness	3-8 mils wet
Coverage per Gallon	160-800 ft ² per gallon
Packaging Information	3 gallon and 15 gallon kits 3 gal kit=2 gal part A (10.5#/gal-colors) or (8.75#/gal-clear) and 1 gallon part B (8.5#/gal. (weights and volumes approximate
Mix ratio	2 parts A to 1 part B by Volume
Abrasion Resistance	Taber abrasor CS-17 calibrase wheel with 1000g total load & 500 cycles= 20.0 mg loss
Shelf Life	6 months in unopened containers
Compressive Strength	12,000 psi@ ASTM D695
Finish Characteristics	Gloss >70 at 60 degrees
Tensile Strength	3,900 psi@ ASTM D638
Ultimate Elongation	2.4%
Hardness	Shore D = 80
DOT Classifications	Part A: Flammable Liquid N.O.S., 3, UN1993, PGIII Part B: Not Regulated
Viscosity	<1000 centipoise typical

Cure Schedule: (70°F)

Pot Life (150 gram mass) (actual usable working time is ~15- 20 minutes)	30-60 minutes
Tack free (dry to touch)	1-3 Hours
Recoat or topcoat	2-4 Hours
Light foot traffic	5-7 Hours
Full Cure (Heavy Traffic)	24-48 Hours

Limitations

- Colors or gloss may be affected by high humidity, low temperatures, chemical exposure, or exposure to lighting such as sodium vapor lights.
- Installing product too thick may result in surface imperfections, bubbles, or product failure
- Do not expose this product to water until fully cured
- Substrate temperature must be 5°F above dew point
- All new concrete must be cured for at least 30 days
- Physical properties are typical values and not specifications
- Light or bright colors (white, safety yellow, etc. may require multiple coats or a suitable color coordinated primer to achieve a satisfactory hide
- Always apply a test patch to determine product suitability and adhesion performance for your proposed application method and procedures
- Colors may vary from batch to batch, therefore use only product from the same batch for an entire job.

MIXING AND APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION: Preparation methods may vary depending on the system being applied. For a complete system thickness that is higher than 10 mils dry, a fine brush blast (shot blast), is recommended. To assure a trouble free bond, all dust, oil, dirt, foreign contaminants and laitance must be removed. It is recommended to perform a moisture test to determine that the concrete has an appropriate vapor barrier. This can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. Once 24 hours has passed, and the substrate is still dry below the plastic sheet, then the substrate does not show signs of eventual hydrostatic pressure problems that may later cause disbonding. This test does not guarantee, however, that there may not be future hydrostatic pressure issues in the future.

PRODUCT STORAGE: Product must be stored in an area that will bring the product to room temperature prior to using. Continuous storage should be between 60 and 90 degree F. Keep from freezing

PRODUCT MIXING: This product has a two to one mix ratio by volume-merely mix two gallons of part A with one gallon of part B. After the two parts are combined, mix well with slow speed mixing equipment until the material is thoroughly mixed and streak free. Avoid whipping air into the coating. Improper mixing may result in product failure. When pigmenting the product (ex. making a 3 gallon batch), pour 1 gallon of Part B into a measuring/mixing bucket, then add the desired amount of pigment into the Part B and mix until blended. Then add the part A up to the 3 gallon mark and mix and blend very well until material is thoroughly mixed and streak free.

Product Application: It is recommended to dip and roll this product using a 3/8" nap roller cover. It is best to maintain a wet edge to avoid roller marks. Direct sunlight or high temperatures may cause visible roller making during application. Applying the product too thick may result in solvent entrapment and product failure. Relative humidity can have a dramatic influence on the curing characteristics. The product will dry quicker and have less working time when the relative humidity is higher while a lower relative humidity will lengthen the dry time and working time. This product has a short usable pot life of about 15 minutes which is substantially shorter than the actual gel time for the product. Applying the product beyond the usable pot life can result in surface irregularities.

Recoat or Topcoating: Installing multiple coats of this product is acceptable. If recoating this product, be sure that all of the solvents have evaporated from the coating during the curing process. Refer to the cure schedule as a guideline to follow, however it is best to test the coating before recoating or topcoating. This is done by pressing your thumb on the coating to ensure a fingerprint impression is not visible. If there is no impression visible, then coating the floor can be done. Note, colder temperatures require longer cure times before product can be recoated. Prior to coating the floor, make sure there are no contaminants exist. If contaminants or a blush exists, remove with a standard detergent cleaner and ensure floor is clean and dry prior to coating. It is recommended to degloss the previous floor prior to coating to ensure a trouble free bond.

Cleanup, Floor Cleaning and Restrictions: Use solvents for cleanup. When cleaning the floor, CAUTION! Some cleaners may affect the color of the installed floor. Test each cleaner used in a small area, ensuring no damage occurs. Restrict the use of the floor to light traffic and non-harsh chemicals until the floor is fully cured, refer to the cure schedule. Allow the floor to remain completely dry during the curing process.

Warranty

Floorguard Products® warrants that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine suitability of our product for your particular purpose. Listed physical properties are typical and should not be construed as specifications. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.