

Technical Data

FGP HyperBond

100% Solids Epoxy Coating

Physical Properties

DESCRIPTION

Floorguard® FGP-HyperBond is a 100% solids, epoxy resin coating designed to provide superior bonding characteristics, impact resistance, and durability. It comes in clear or pigmented colors. **FGP- HyperBond** should be used wherever a durable, high build, protective floor coating is required. **FGP- HyperBond** has no solvent odors and therefore can be used in occupied areas. It's ideal for base coats in full broadcast systems.

ADVANTAGES

- **Superior Bond Characteristics**
- **Resistance to blushing/sweating**
- **Water insensitive**
- **Easy Application**

CONSIDERATIONS

- **Avoid applications on surfaces without effective vapor barriers.**
- **Surfaces must be sound and without contaminants**
- **Application Temperature 45-90°F with relative humidity below 85%**

Chemical Resistance

Reagent	Rating
Acetic Acid-5%	L
Xylene	R
Mek	L
Urea	R
Gasoline	R
50% Sodium Hydroxide	R
Bleach	L
Skydrol	R
20% Sulfuric Acid	R
15% Hydrochloric Acid	R
10% Nitric Acid	R
Ethylene Glycol	R

R-Recommended for continuous service

L-Limited recommendation, occasional spills

Solids by Weight	100%
Solids Content, %vol	100%
VOC	Nearly zero pounds per gallon
Colors	Clear or Pigmented. See Floorguard Products® Color Chart
Recommended Film Thickness	16-18 mils
Coverage per Gallon	100-150 sq.ft. @ 10 mils, 100 sq.ft. @ 18 mils
Packaging Information	3 gallon kit (32 lbs) and 15 gallon kits (150 lbs)
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= 36 mg loss
Shelf Life	1 year in unopened containers
Impact	Gardner Impact, direct & reverse= 50 in./lb. (passed)
High Gloss, 60°F	60-90@ Erichsen Glossmeter
Flexural Strength	10,465 psi @ ASTM D790
Adhesion	450 psi @ elcometer (concrete failure, no delamination)
Viscosity	Mixed=2,000 cps (typical)
DOT Classifications	Part A: CORROSIVE LIQUID Part B: CORROSIVE LIQUID
Hardness	Shore D=82
Compressive Strength	12,300 psi @ ASTM D695
Tensile Strength	9,200 psi @ ASTM D638

Cure Schedule: (75°F)

Pot Life	30-50 Min. (at 75°F- 1 ½ gal.)
Tack free (dry to touch)	15 Hours
Recoat or topcoat	15-20 Hours minimum
Light foot traffic	24 Hours minimum
Full Cure (Heavy Traffic)	5 Days

Limitations

- Colors or gloss may be affected by high humidity, low temperatures, chemical exposure, or exposure to lighting such as sodium vapor lights.
- For best results use a 3/4" nap roller
- Slab on grade requires moisture barrier
- 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
- Tire contact may cause staining or discoloration (long term parked vehicles)
- 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. Diamond grinding is also acceptable. 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 2 gallons of part A with 1 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: Properly prime the substrate prior to applying this product. Use a brush or ¾" nap roller to apply the mixed material. This product can be applied using a knotted, or serrated squeegee, then back rolled to maintain appropriate thickness. Maintain temperatures within the recommended ranges during the application and curing process. It is best to maintain a wet edge to avoid roller marks. Direct sunlight or high temperatures may cause visible roller making during application.

Recoat or Topcoating: Installing multiple coats of this product is acceptable. If coating over this product, be sure that it is fully cured, especially when coating over it with a solvent based product. 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 exists, remove with a standard detergent cleaner and ensure floor is clean and dry prior to coating. When recoating this product with subsequent coats of urethane, make sure to apply the recoat within the 24 hour time frame. 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.

