

## FloroSpartic 5 Polyaspartic Coating System

**Product Description:** FloroSpartic 5 is a glossy, clear, VOC compliant, aliphatic polyaspartic concrete floor coating that may be used as a light stable, high performance topcoat or as a multi-coat system. It provides superior chemical resistance to oil, grease, and strong detergents and is quick-curing at room temperature, allowing many projects to be completed in a single day. FloroSpartic 5 also cures well in cool conditions and may be field-tinted with Florock Universal Colorants.

**Typical Uses, Applications:** Ideal as primer, basecoat and topcoat in the FloroShop, FloroQuartz and FloroChip Systems, Floro-Spartic 5 may also be applied as a topcoat over Floropoxy Epoxies and in hybrid systems over Florocrete Urethane Mortars. Frequently used in commercial, industrial and institutional applications where fast turnaround or cool conditions exist, such as:

- Commercial, Retail & Restaurants
- Healthcare, Science & Technology
- Animal & Veterinary Clinics
- Schools, Correctional & Public Safety
- Food & Beverage Processing
- Aviation & Transportation
- Manufacturing

### Product Advantages:

- Excellent wear & chemical resistance
- Fast curing; cures in cool temperatures
- Outstanding thermal shock properties
- USDA, FDA, OSHA & EPA Compliant
- Resistant to ultraviolet light
- Conveniently field-tintable with Florock Universal Colorants

### Cured Physical Properties

60 Gloss	ASTM D523	90+
Impact Resistance	MIL D2794	>160
Adhesion	ASTM D4541	400 psi
Hardness/ Shore D	ASTM 2240	70
Compression Strength	ASTM C579	18,000 psi
Tensile Strength	ASTM D638	3,000 psi
Abrasion Resistance, Taber Abrader CS-17 Wheel, 1000gm. load, 1000 cycles	ASTM D4060	15 mg loss
QUV	UVB-373/ 1500 hrs	90%
Flexibility (1/4: Cylindrical Mandrel)	ASTM D -1737	Pass
Coefficient of Friction	ASTM D-2047	>0.6

### Packaging:

2 Gallon Kit  
10 Gallon Pail Set

### Storage:

All containers should be stored at 32° F to 95° F and be kept tightly sealed and out of direct sunlight.

### Coverage:

FloroSpartic 5 is typically applied with a medium nap, solvent resistant roller and roller pan at 100-400 SF per gallon depending on the profile. Contact Your Florock Representative for further information.

*Note: FloroSpartic should not be applied when floor temperature is above 85° F or below 32° F, or when within 5° F of the dew point. Cooler temperatures require longer cure times. Consult your Florock Rep. for details.*

*Note: The cure time will vary with cooler temperatures. Allow a minimum of 2 hours and a maximum of 24 hours between each step.*

**Surface Preparation:** New concrete must have a 28 day cure, and preferably a broom swept finish, prior to coating. In the case of older concrete flooring, remove all surface oils, paint, dust and debris. Prior to coating, make sure the surface is clean, passes the MVT test and the water drop test and that all surface defects have been repaired. Refer to the Florock "Preparation of Concrete" data sheet for more information on preparation and MVT before proceeding.

**Mixing FloroSpartic 5:** In a clean, dry container, blend 1 part by volume of Resin Part A with 1 part by volume of Activator Part B. Mix thoroughly for 2-3 minutes, using a low speed mechanical mixer.

FloroSpartic 5 may be field-tinted with Florock Universal Colorants. Use 1 quart colorant per 2 gallon mix.

**Working with FloroSpartic:**

It is best to apply FloroSpartic 5 out of a roller pan using a solvent resistant, medium nap roller. Keeping the product in a mass in the bucket will give you the longest working time.

If a roller pan cannot be used, pour out onto the floor only what can be spread and backrolled within the next 2 minutes, keeping the remainder of product in the bucket. Then, pour out just the amount needed for the next section.

*Note: It is important to maintain a wet edge. If the wet edge is lost, it is best to stop coating and allow the product to cure. After the product has cured, restart the coating process. A dry paint brush can be used to knock down the demarcation line at the restart point.*

*Note: Care should be taken not to over work or apply too thick. When Florospartic is over worked or applied to thick, micro bubbling will occur. This will show itself as a haze on clear Florospartic coats.*

Blended Components	
Blended Ratio	1:1 by volume
Curing Time, 70° F @ 50% RH	
Set to Touch, 70° F *	< 2 hrs.
Minimum Recoat (Foot Traffic)	2 hrs.
Maximum Recoat, Full Service	24 hrs.
Full Chemical Resistance	7 days
Pot Life (2 Gal. Volume)	1 hr.
Recommended Spread Rate	100-400 SF/gal.
N.V.W., ASTM D2369	72 %
Blended Viscosity, ASTM D2196	40 cps
VOC, ASTM D3960	5 gpl

\*Cure time is 12 hours @ 32°F.

**When Applying as a Topcoat over Smooth Epoxy:** Once the epoxy has reached its recoat window, solvent wipe the floor with 100 Solvent and apply Florospartic 5 within 2 hours of the solvent wipe.

**When Using to Grout a Broadcast Surface:**

1. Allow sufficient cure time so that material is cured hard enough to walk on without leaving an impression in the coating. Sweep or blow off excess broadcast. Sand or screen any high points until smooth. Vacuum clean.

2. 1st Grout Coat Application – Spread with a medium nap, solvent resistant roller and roller pan at no thicker than 100-400 SF/gallon, depending upon desired texture.

3. Optional 2nd Grout Coat Application – Repeat procedure outlined in step 2, however, note that less resin will be consumed in the 2<sup>nd</sup> grout coat, since the surface is now smoother. Spread FloroSpartic 5 with a medium nap, solvent resistant roller and roller pan at 100-400 SF/gallon.

## FloroSpartic 5 Polyaspartic Coating System

### When Applying as a Stand Alone System:

1. Primer – Mix and apply, using a roller pan and a solvent resistant, medium nap roller, at 200 SF per gal. Pigmenting this step is optional.

2. Optional Broadcast Basecoat – Mix and apply using a roller pan and a solvent resistant, medium nap roller, at 100-400 SF per gal. While still wet, broadcast aggregate or flakes. Pigmenting this step is optional.

3. 1<sup>st</sup> Topcoat: Mix and apply, using a roller pan and a solvent-resistant medium nap roller at 100-400 SF per gal. Pigmenting this step is optional.

4. Optional 2<sup>nd</sup> Topcoat – Mix and apply, using a roller pan and a solvent resistant, medium nap roller, at rate of 100-400 SF per gal., depending on desired texture. Pigmenting this step is optional.

*Note: Care should be taken to not over-work or apply too thick. When FloroSpartic is over-worked or applied too thick, micro-bubbling can occur. This will appear as a haze on clear FloroSpartic coats.*

**Optional Cove:** FloroSpartic may be used as a “painted on” cove. Tape off a straight cove line, apply a coat of primer and allow to cure. Then, apply a basecoat and broadcast desired aggregate or flakes. Finish with two topcoats.

### Chemical Resistance

Reagent	Spot Test Results
Sulfuric Acid 10%	1
Sulfuric Acid 25%	1,S
Citric Acid 10%	1
Lactic Acid 10%	1
Acetic Acid 10%	1
Sugar Solution 10%	1
Isopropyl Alcohol	2
Acetone	2
Ammonia	1
Brake Fluid	1
Sodium Chloride 20%	1
MEK	1
JP 4 Jet Fuel	1
Xylene	1
Methylene Chloride	5
Mineral Spirits	1
Toluene	4
Skydrol®	1
Tincture of Iodine	1,S
Water	1

Rating Scale: Spot Test, ASTM D1308

Pencil Hardness Test, ASTM D 3363

- 1 – Excellent, no change in pencil hardness
- 2 – Very Good, 1 unit change in pencil hardness
- 3 - Good, 2 units change in pencil hardness
- 4 - Fair 3 units change in pencil hardness
- 5 - Poor, 4 or more units change in pencil hardness
- S - Stains

**Instructions for Use over Existing**

**Coatings:** Examine the existing coating to ensure that it is well bonded to the concrete. Any loose coating must be completely removed. Feather any edges. Clean the entire floor thoroughly with detergent cleaner. The surface must be free of all dirt, oils, or other contaminants. After the floor has completely dried, sand the existing coating until a powdery residue is evident and all gloss is removed. Sweep or vacuum clean, and wipe with 100 Solvent to ensure good adhesion of the new system.

*Note: When coating over existing coatings, a test patch is recommended to evaluate compatibility.*

*Note: Fisheyes may occur if floor does not receive a solvent wipe of 100 Solvent. Do not use Xylene, Acetone or other solvents.*

**DISCLAIMER:** All statements and recommendations above are based on experience we believe to be reliable. The use of application of these products being beyond the control of the Seller or Manufacturer, neither Seller nor Manufacturer make any warranty, expressed or implied, as to results or hazard from its use. The suitability, risk and liability of a product for an intended use shall be solely up to the User.

**Read Safety Data Sheet before using product.**