

FloroSpartic Zero & 340 Polyaspartic Coating Systems

Product Description: FloroSpartic Zero and 340 are glossy, clear, VOC compliant, aliphatic polyaspartic concrete floor coatings. They may be used as light stable, high performance topcoats or as multi-coat system. Curing well in cool conditions. FloroSpartic provides good chemical resistance to oil, grease and strong detergents. Both formulations are quick-drying, allowing many projects to be completed in a single day.

Typical Uses, Applications: Ideal as primer, basecoat and topcoat in the FloroShop, FloroQuartz and FloroChip Systems, FloroSpartic Zero and 340 may also be used 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 & Medical
- Science, Technology & Education
- Aviation & Vehicle Maintenance
- Food & Beverage Processing
- Correctional & Public Safety
- Animal Facilities & Veterinary Clinics
- Manufacturing

Product Advantages:

- Excellent durability & chemical resistance
- Fast curing for quick turnaround
- Resistant to ultraviolet light
- Conveniently field-tintable with Florock Universal Colorants
- Cures in cool temperatures

Cured Physical Properties – FloroSpartic Zero & 340

| | | |
|---|------------------|---------------|
| 60 Gloss | ASTM D523 | 90+ |
| Impact Resistance | MIL D-2794 | >160 |
| Adhesion | ASTM D-4541 | 400 psi |
| Hardness | ASTM D-3363 | 4H |
| Tensile Strength | ASTMD2047 | 7000 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 |
| Elongation | ASTM D -2370 | 9% |
| Coefficient of Friction | ASTM D-2047 | >0.6 |

Packaging:

FloroSpartic Zero – 1 Gallon Kit
FloroSpartic 340 – 2 Gallon Case

Storage:

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

Coverage:

FloroSpartic is typically applied a medium nap, solvent resistant roller and roller pan at 160-400 SF per gallon, depending on the profile.

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" datasheet for more information on preparation and MVT before proceeding.

Note: FloroSpartic should not be applied when floor temperature is above 90° 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.

Mixing FloroSpartic Zero: Pour the contents of Part A into Part B. Mix thoroughly for 60-90 seconds, using a low speed mechanical mixer.

Mixing FloroSpartic 340: 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 60-90 seconds, using a low speed mechanical mixer.

FloroSpartic may be colored with Florock Universal Colorants accordingly:

- *FloroSpartic 100 – Use 1 pint colorant per one gallon kit*
- *FloroSpartic 340 – Use 1 quart colorant per 2 gallon case*

Working with FloroSpartic: It is best to apply FloroSpartic out of a roller pan, using a solvent-resistant, medium nap roller. Keeping the remainder of product in the mixing bucket in a mass provides the longest working time.

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

| Blended Components FloroSpartic Zero | |
|---|-----------------|
| Blended Ratio | 3:2 by volume |
| Curing Time, 70° F @ 50% RH | |
| Set to Touch, 70° F* | 1 hrs. |
| Minimum Recoat (Foot Traffic) | 2 hrs. |
| Maximum Recoat | 24 hrs. |
| Pot Life (1 Gal. Volume) | 20 min. |
| Recommended Spread Rate | 160-400 SF/gal. |
| N.V.W., ASTM D2369 | 100 |
| N.V.V., ASTM D1259 | 100 |
| Blended Viscosity, ASTM D2196 | 400 cps |
| VOC, ASTM D3960 | 0 gpl |

| Blended Components FloroSpartic 340 | |
|--|-----------------|
| 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 | 24 hrs |
| Pot Life (2 Gal. Volume) | 1 hr. |
| Recommended Spread Rate | 160-400 SF/gal. |
| N.V.W., ASTM D2369 | 53.8 |
| N.V.V., ASTM D1259 | 51.5 |
| Blended Viscosity, ASTM D2196 | 40 cps |
| VOC, ASTM D3960 | 260 gpl |

*Cure time is 12 hours @ 32°F.

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 is cured, restart the coating process. A dry paint brush can be used to knock down the demarcation of the restart line.

Note: Care should be taken not to 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.

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

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Standard System:

1. Primer – Mix and apply, using a medium nap solvent-resistant roller and roller pan, spreading at 200-300 SF per gal.
2. Basecoat – Mix and apply, using a medium nap solvent-resistant roller and roller pan, spreading at 160-400 SF per gal. While still wet, broadcast aggregate or flakes.
3. 1st Topcoat – Mix and apply, using a medium nap solvent-resistant roller and roller pan, spreading at 160-400 SF per gal.
4. 2nd Topcoat – Mix and apply, using a medium nap solvent-resistant roller and roller pan, spreading at 160-400 SF per gal.

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 for broadcasting the aggregate or flakes into. Finish with two topcoats.

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 Xylene to ensure good adhesion of the new system.

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

Please read Safety Data Sheets before using product.

DISCLAIMER:

All statements and recommendations above are based on experience we believe to be reliable. The use or 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 the User.