

## Technical Data Sheet


# F1 FLOOR SYSTEM

## HIGH PERFORMANCE POLYASPARTIC POLYUREA

F1 FLOOR SYSTEM is a stand above all, two component polyaspartic aliphatic polyurea utilizing innovative proprietary nanotechnology. It provides a high gloss clear coating. Its superior penetration and bonding strength can provide years of abrasion, impact, and wear resistance. F1 FLOOR SYSTEM yields chemical splash and spill resistance and hot tire pick-up resistance much like its epoxy counterpart.

**Compliances - Specifications** > Dried coating is USDA accepted > Meets OTC, CARB & LADCO VOC restrictions.

Technical Information & Properties	
PROPERTY	VALUE
Solids/Active Content, Percentage by weight	80% +/- 1%
Dry Time - Tack Free	2 - 3 hours
Dry Time - Foot Traffic	3 - 4 hours
Dry Time - Heavy Traffic	24 hours
Re-Coat Time Window	2 - 18 hours
Application Temperature	50° F - 80° F
VOC (Volatile Organic Compound) Content	Less than 400 grams/Liter
Appearance - Wet	Clear (May show slight haze)
Appearance - Dry	Clear and High Gloss



### Key Features

Excellent long term wear capabilities allow for longer life without re-coating.

Quick dry time provides unmatched labor saving capabilities above epoxies and polyurethanes

UV stability allows this to be used in areas saturated by the sun throughout the day.

Can be tinted for solid color applications with *F1 FLOORING COLORANT*

Excellent for use in the Durafleck Floor System

VOC compliant for most areas in the United States and Canada.

### Recommended Applications

Garages | Auto Service Centers | Laboratories | Cafeterias

Many other interior concrete floors where a fast curing, high performance coating is necessary.



# F1 FLOOR SYSTEM



## Precautions and Limitations

This product will not freeze during storage, however, allow temperature to rise to 50°F prior to application. All HVAC ventilation ducts should be somehow blocked prior to application so solvent fumes are not distributed. If using indoor, use proper ventilation while applying and for hours after application to ensure fumes are removed.

It is not recommended to apply product over carpet, tile, or other types of floor adhesives.

This product performs best when applied as one or two medium-light coats, not one heavy coat.

Please be aware that this product when cured may be slippery when wet.

All new concrete must be cured for at least 28 days prior to application.

It is not recommended to thin product. Improper thinning may cause sealer to delaminate in a short time frame.

This product may darken the surface of many new and existing concrete slabs. Test prior to use.

Physical properties listed on this technical data sheet are typical values not specifications.

SOLVENT VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGE, OR OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

## Application Instructions

**SURFACE PREP:** The concrete surface must be deemed mechanically and structurally sound, completely clean, and dry. To achieve the above desired results, a mechanical grinding method should be performed to an approximate 50-100 grit profile to insure flatness of the substrate, to remove surface impurities. If mechanical means of preparation are not suitable, it is recommended to prepare the surface with a muriatic acid solution of 1 pt. acid to 4 pts. water. Substrate and air temperature must be no less than 40° F and not exceed 80° F. If applied outside these limits the sealer may not achieve adequate film formation and may have excessive air entrapment, bubbles, blushing or hazing. Note that in direct sunlight, substrate temperature can exceed 150° F which can cause extreme bubbling issues.

**MIXING:** If mixing less than a full kit, mix Part A & Part B separately with a stir stick, low speed mixer or vigorously shake container prior to blending the smaller kit to ensure uniform distribution of all ingredients. Proper mixing is pertinent to application success. In equal parts (1:1), mix Part A and Part B using a clean, dry working pot (mixing container). Stir contents approximately 30-60 seconds. Avoid over-mixing or creating a vortex which could introduce moisture content to the mixture. No induction time is required prior to use, nor after mixing. If integrating anti-skid media agents, only do so after Parts A & B have been thoroughly mixed.

**COVERAGE RATE:** *First Coat* : 200 - 300 ft<sup>2</sup> per gallon\*      *Optional Second Coat* : 250 - 350 ft<sup>2</sup> per gallon\* (When used with the Durafleck System)

\*Coverage rates may vary depending upon surface porosity, texture, application method and prior sealer application. Excessive build up should be avoided.

**POT LIFE:** Expected workable pot life after mixing Part A and Part B is approximately 25-30 minutes at a common temperature range of 70° F -80° F at roughly 50% relative humidity. Please note that higher temperatures and high percentages of humidity will shorten pot life, as colder temperatures and lower percentages of humidity will extend the coatings pot life.

**APPLICATION INSTRUCTIONS:** Application should be completed using a 3/8" synthetic nap, phenolic core roller, or a lambs wool cover for pigmented, stained floors, or media coats. Use a speed trowel and back roll with the roller over media floors (quartz or chips). It is recommended to use only 18" wide squeegees and rollers. Please note that the use of pump-up style spray bottle may create visible bubbles, blisters, and pinholes and is not recommended.

FOR PERSONAL PROTECTION USE GLOVES, GOGGLES, AND RESPIRATORS.

**PLEASE NOTE:** Applying material outside the suggested parameters may result in product failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc. When applying, do not exceed 400 sq. ft. per gallon. Applying too thin of a coating may cause inadequate film formation or performance expectations may be limited. **DO NOT USE ON BRICK.** Increased Temperature will shorten re-coat window. Decreased Temperature will lengthen re-coat window.

**CLEAN-UP:** Use xylene. Dispose of containers in accordance with local, state and federal regulations.

**PRODUCT REMOVAL:** Dried, cured sealer may be removed with a commercial paint stripper or by using a diamond grinding method, sandblasting method or similar mechanical action.

**SHELF LIFE:** Up to one year from manufacture date in its original, unopened container stored at room temperature.

**PACKAGING:** Available in 2 gallon kits.

Always read all technical information, label and SDS prior to use.