

Technical Data Sheet

F1 FLOOR SYSTEM - LOW ODOR

HIGH PERFORMANCE POLYASPARTIC POLYUREA

F1 Floor System - LOW ODOR is a super low odor polyaspartic polyurea ideal for spaces where time and odor is of great concern. F1 Floor System - LOW ODOR utilizes a special blend of low odor solvents to create a unique coating with low viscosity, a long pot life and a fast return to service. F1 Floor System - LOW ODOR provides a high gloss clear coating and its superior penetration and bonding strength can provide years of abrasion, impact, and wear resistance.

Compliances - Specifications

Technical Information & Properties	
PROPERTY	VALUE
Solids/Active Content, Percentage by weight	90% +/- 1%
Dry Time - Tack Free	3 - 5 hours
Dry Time - Foot Traffic	4 - 8 hours
Dry Time - Heavy Traffic	24 - 48 hours
Re-Coat Time Window	2 - 18 hours
Application Temperature	50° F - 80° F
VOC (Volatile Organic Compound) Content	Less than 5 grams/Liter
Appearance - Wet	Clear
Appearance - Dry	Clear and High Gloss

Key Features

Super low odor formula provides a pleasant work environment for contractors, clients and neighbors.

Long pot life and quick return to services provides comfort and labor cost savings for contractors.

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 ALL 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 - LOW ODOR

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 PREPARATION: The concrete surface must be deemed mechanically and structurally sound, completely clean, and dry. To achieve the above desired results, a mechanical grinding or shot blast method should be performed to achieve a 50-100 grit profile to insure flatness of the substrate, to remove surface impurities, and to profile the surface of the floor to a CSP-2, as recommended by the ICRI Technical Guideline No. 03732.

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 mixing container. Stir contents approximately 1 - 3 minutes. Avoid overmixing 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 antiskid media agents, only do so after Parts A & B have been thoroughly mixed.

COVERAGE RATE: First Coat : 250 - 300 ft² per gallon* Optional Second Coat : 275 - 325 ft² per gallon* Over Media : 175 - 225 ft² per gallon*
*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 45 - 60 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 magic trowel and back roll with the roller over media floors (quartz or chips). It is recommended to use only 18" wide squeegees and rollers. If considering using airless application method, consult the manufacturer prior to application. Please note that the use of pump-up style spray bottle may create visible bubbles, blisters, and pinholes and is not recommended.

*Please note that low air and/or concrete temperatures and/or relative humidity may extend cure times. F1 should only be applied within temperature ranges of 50°F - 80°F. Follow recommended coverage rates for best results.

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.

F1 FLOOR SYSTEM LOW ODOR

Extended Technical Data

Pot Life	45 - 60 minutes
Tensile Strength (ASTM D-638)	4,500 to 5,000 psi
Flexibility, 1/8" Mandrel (ASTM D1737)	Pass
Falling Sand Abrasion Resistance (ASTM D-968)	15 - 17 mg loss
Hardness (7 days)	5H - 6H
Heat Resistance	300° F
Water Resistance	Excellent
Gloss 60°	92

Chemical Resistance

R - recommended (little to no visible damage)
 RC - recommended conditional (some effect, swelling or discoloration)
 C - conditional (wash within one hour of exposure to avoid effects)
 NR - not recommended (visible damage will occur)

Urine	R
Xylene	R
MEK	RC
Isopropyl Alcohol	R
Methanol	R
Gasoline	R
Diesel Fuel	R
Skydrol	R
Motor Oil	R
Transmission Fluid	R
Brake Fluid	R
Hydraulic Fluid	R
Water	R
Sugar / Water	R
Chlorinated Water	R
Clorox (10%) Water	R
Vinegar / Water 5%	R
Wine	R
Sodium Hydroxide 25%	R
Muriatic Acid 10%	R
Sulfuric Acid 10%	R
Nitric Acid 10%	NR
Phosphoric Acid 10%	R
Hydrochloric Acid 20%	R

Allow 7 - 14 days for product to fully cure to reach full abrasion and chemical resistance properties.

