



FastFloor™ DF Data Sheet



ISO 9001:2000
FM62236

Isocyanate – FastFloor™ DF Iso, Part #60400

Resin – FastFloor™ DF Resin, Part #60410

DESCRIPTION:

FastFloor DF is a two-component, rapid curing, polyaspartic coating system designed as a decorative yet durable coating for floors and other applications. Formulated with aliphatic chemistry, FastFloor DF is color stable allowing it take UV exposure without color shifts seen with other coating systems such as epoxies. FastFloor DF is a 1:1 mix ratio system with sufficient pot life to be rolled, brushed, or sprayed with Rhino Linings® application equipment.

FEATURES & BENEFITS:

- Fast cure allowing rapid turnaround time; under normal conditions, light foot traffic within 3 – 4 hours, return to service in 24 hours.
- Robust application window with ability to apply at low temperatures and high humidity.
- Achieve a variety of colors, patterns, and logos, using decorative flakes, particles, or signs.
- Excellent abrasion and impact resistance.
- Excellent chemical resistance.
- Excellent UV resistance and high gloss characteristics.
- Bonds to virtually all substrates of any dimension, including metals, woods, concrete, and fiberglass.
- Zero VOCs; environmentally friendly.

APPLICATIONS:

- Excellent durability and aesthetics for floor, equipment and other coatings including:
 - garage floors
 - laboratories
 - restaurant floors
 - airplane hangars
 - entry and lobby areas
- Creates a durable, seamless lining which conforms to any shape and size.

TYPICAL PHYSICAL PROPERTIES:

| | | |
|--|-----------|-------------|
| Hardness | | |
| - Pencil | 2H | |
| - Pendulum | 160 | |
| Tensile Strength (psi)* | 6,500 | ASTM D-412 |
| Elongation (%)* | 6 – 8 | ASTM D-412 |
| Impact Resistance, lbs | 100 | |
| Taber Abrasion Resistance | 50 – 60 | ASTM D-4060 |
| - (mg of loss/1000 cycles) CS17 Wheel; 1000 grams weight | | |
| Specific Gravity (grams/cc) | 1.0 | ASTM D-792 |
| Water Absorption (%) | ≤ 0.5 | ASTM D-570 |
| Water Vapor Transmission | | ASTM E-96 |
| - Rate of Transmission, grains/h ft ² | 0.58 | |
| - Permeance (perm, in - lb) | 1.39 | |
| QUV Weatherometer, 4,000 hours | | |
| - Oxidation | No effect | |
| - Loss of gloss | No effect | |
| - Blistering | No effect | |
| - Yellowing | No effect | |

*Properties were checked on dry films at 5 – 6 mils thick, air dried for 7 days.

PROCESSING CHARACTERISTICS OF FASTFLOOR™ DF:

| | |
|--------------------------|--|
| Ratio: | 1 part iso to 1 part resin by volume |
| Pot Life: | 20 – 30 minutes @ 72°F |
| Coverage Rate: | 200 – 250 sq. ft. per gallon depending on substrate porosity |
| Temperature Usage Range: | 40 – 120°F recommended |

CHEMICAL RESISTANCE:

Excellent resistance to many chemicals. For a 7 day immersion in:

| | |
|--------------------------|-----------|
| - Gasoline | No effect |
| - Brake Fluid | No effect |
| - Skydrol | No effect |
| - Coolant or Anti-freeze | No effect |
| - Ammonium hydroxide | No effect |

SURFACE PREP:

See Rhino Linings® Application Standard for full surface prep instructions. Substrate should be clean, dry, and free of oils and other contaminants. Rhino™ recommends diamond grinding or shot-blasting for creating surface profile. Acid or wet etching is not recommended.

THICKNESS:

FastFloor DF is typically applied in two coats, the pigmented base coat (FastFloor) and a clear top coat (ClearCoat). Decorative flakes or quartz particles are broadcast into the base coat. Total coating thickness is typically 15 – 20 mils with decorative flakes. See Rhino representative for your specific application.

STORAGE & SHELF LIFE:

FastFloor DF components should be stored in sealed containers at 60 – 90° F in a dry area.

Isocyanate: Six months, unopened; stored properly.

Resin: Twelve months, unopened, stored properly.

COLOR OPTIONS:

Color – Clear

Standard colors available: grey, tan and terra cotta.

Custom colors are also available by special order.

Decorative Chips: 6 Standard Colors; Decorative Quartz: 6 Standard Colors

SAFETY PRECAUTIONS:

Health Considerations: Consult the Rhino Linings® Material Safety Data Sheets.

This chemical system requires the use of proper safety equipment and procedures. Please follow the Rhino Linings® product MSDS and Safety Manual for detailed information and handling guidelines.

For Your Protection:

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Rhino Linings Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors. Because of numerous factors affecting results, **Rhino Linings Corporation makes no warranty of any kind, express or implied**, other than that the material conforms to its applicable current Standard Specifications. Rhino Linings Corporation hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of Rhino Linings Corporation for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

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