



FASTFLO™ 80

TECHNICAL DATA SHEET

Fast Curing, High Performance, UV Stable, Polyaspartic - Clear or Pigmented

PRODUCT DESCRIPTION

SLABHARD FASTFLO™ 80 is a two-component, abrasion, chemical, and stain-resistant, fast-curing polyaspartic basecoat and topcoat. This material is formulated to be used as a fast-turnaround, one-day system application direct-to-concrete polyaspartic. It is available in clear gloss and can be pigmented with SLABHARD (Polyaspartic) PP Pigment Packs. It cures to an inert, tough, impact, abrasion, and chemical resistant coating. It is resistant to Skydrol, betadine, and conventional hot-tire staining. Excellent adhesion to SLABHARD epoxy systems. No primer is required when FASTFLO 80 is used as an upgraded finish coat on SLABHARD products and systems subjected to heavy foot traffic, forklift traffic and chemical attack. It is available in two working times: EASYFLO 80-F (Fast) and EASYFLO 80-S (Slow).

It is VOC Compliant in all states and provinces in North America.

TYPICAL USES

- Aircraft Hangar and Maintenance Floors
- Automotive Show Room and Repair Floors
- Commercial Bakery and Kitchen Floors
- Hospital and Health Care Facility Floors
- Laboratory and Research Floors
- Manufacturing and Warehouse Floors
- Pharmaceutical Floors
- Clearcoat over decorative systems

BENEFITS

- Complies with USDA, FDA, and Food Safety Modernization Act.
- Slip Resistance
- LEED® and Green Seal® requirements
- VOC and EPA Compliant all states and provinces in North America. Cures to an inert finish.
- Strong and Tough Floor.
- Excellent Chemical and Abrasion Resistance
- Designed for new floors and for resurfacing old floors.

LIMITATIONS

- This product is best suited for applications when the temperature is between 60°F to 90°F (16°C to 32°C). Do not apply when Relative Humidity exceeds 85%.
- Higher temperatures will result in shortened working time and drying time.

COLORS

- Clear Gloss and Pigmented Topcoat: 160 sq. ft. (14.9 sq. m) WFT 10 mils (0.25 mm)

CONCRETE

Concrete must be structurally sound and free of curing agents, coatings, sealers, densifiers, and other bond breakers.

New Concrete:

- Place concrete per ACI 302.2R Guide for Concrete Slabs that Receive Moisture-Sensitive Floor Materials.
- Water Cement Ratio 0.4 to 0.5, and an approximate 4,000 psi (28 MPa) strength level.

Manufactured by:

Desert Polymer Flooring, Inc. • 77583 El Duna Ct., Unit-F • Palm Desert, CA 92211
Tel: 877-376-9994 • Fax: 760-200-3304 • www.DesertPolymerFlooring.com

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- Requiring a positive side moisture barrier in direct contact with the concrete meeting ASTM E1745 Standard Specification for Plastic Water Retarders
- Used in Contact with Soil or Granular Fill under Concrete Slabs.
- The moisture barrier needs to be placed per ASTM E1643 Standard Practice for Selection, Design, Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs, Class A 15 mils (0.38mm)

Existing Concrete:

- If field tests or laboratory analysis reveals inferior concrete flooring slabs containing contaminants from previously applied unreacted silicate materials that will interfere with the bond, use **SLABLOC® 50**.
- Contaminants include, but are not limited to organic hydrocarbon materials, calcium chlorides, and aluminum stearates.
- Concrete flooring slab can lose their structural strength over time, caused by conditions beyond the control of the flooring manufacturer or the installation contractor.
- If the concrete substrate deteriorates sufficiently, it will no longer support the bond of the remediation floor system.
- Such conditions are detailed in ACI 201.2R “Guide to Durable Concrete” published by the American Concrete Institute.

Pot Life, 1 gallon (3.79 liters) Mass, Pot Life is Reduced by Increases in Mass & Temperature	30 Minutes	15 Minutes
Dry to Touch	4 - 5 Hours	1 - 2 Hours
Light Traffic	6 Hours	4 Hour
Vehicle Traffic	2 Days	1-2 Days
Full Chemical Resistance	7 Days	7 Days
Shelf Life (shipped and stored) at 40°F to 100°F (4.4°C to 38°C)	1 Years	
Packaging 2 gal, 10 gal (7.58 lt., 37.9 lt.)		

PHYSICAL PROPERTIES @ 77°F (25°C) 7 DAY CURE (UNLESS STATED OTHERWISE)		
VOC (Volatile Organic Compounds), Calculated Per ASTM D3960)	Organic (VOC ASTM	<75 gr./lt.
Viscosity, Mixed		300 to 400 cps
Solids Content, by Volume (Clear Gloss)		80.0% (+/- 2%)
Solids Content, by Volume (Pigmented)		81.0% (+/- 2%)
Mix Ratio, by Volume		1:1
Minimum Application Surface Temperature		40°F
Working Time	Slow	Fast

MECHANICAL PROPERTIES @ 77°F (25°C) 7 DAY CURE	
Surface Preparation ICRI Guideline No. 310.2R – Concrete Surface Profile (CSP 2 and above) Depending on System to be Installed and Condition of Concrete.	
Gloss Index, 60 Degrees Clear Gloss, ASTM D523	90 – 95
Gloss Index, 60 Degrees Pigmented, ASTN D523	80 – 90
Pencil Hardness, ASTM D3363	2H
Abrasion Resistance, ASTM D4060 500 cycles, Wheel No. CS17, 1000 gr. Load	0.02 gr.
Flexibility, Bend Mandrel Coating Test, ASTM D522	Pass 1/8 Inch
Microbial (fungi) Resistance, ASTM G21 (Without the Anti-Microbial Agent)	Pass #1
Wet Dynamic Coefficient of Friction, ASNI 326.3 Depends on texture of system selected, ranging from smooth or aggressive. Measured with BOT 3000E equipment.	>0.45 (inclines) >0.42 (level)
Moisture Vapor Emission Rate, ASTM F1869*	3 lbs.
Moisture Relative Humidity, ASTM F2170*	80% RH
*If moisture or relative humidity exceeds the limits consult the SLABHARD representative.	

Note: Though testing is critical, it is not a guarantee against future problems. This is especially true if there is not a positive side vapor barrier, or it is not functioning properly

and/or concrete has contamination from oils, chemical spills, densifiers, excessive salts or other bond breakers.

CHECK CONCRETE MOISTURE

The concrete must be dry before application of this floor coating material. Concrete moisture tests are required, either ASTM F1869 (calcium chloride) or ASTM F2170 (in situ RH probe).

CHECK TEMPERATURE & HUMIDITY

Floor and material temperature must be at or above the published Technical Data Sheet. Dew Point must be 5°F (3°F) or more below the surface temperature. Do not apply if humidity is at or above 85%.

SURFACE PREPARATION

Surface preparation following: ICRI Guideline No. 310.2R Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair. The pH of the concrete substrate should be at 9 or above. All bond-breaking material must be removed.

APPLICATION EQUIPMENT

Depending on system applied: Variable low-speed drill (450 rpm) with Jiffy® type impeller mixing paddle, disposable 3" brush for cutting in, 3/8-inch nap non-shedding phenolic core roller, and rubber squeegee for spreading **EASYFLO™ 80**. Pour, squeegee, and back-roll are suggested because Dip-n-Roll can be challenging for inexperienced installers resulting in unattractive lap lines.

OPTIONAL ANTIMICROBIAL

The antimicrobial additive is a non-heavy metal biocide that can be added during the manufacturing process. The antimicrobial agent can be added to the topcoat only for an economical application or it can be added to each step of the application, primer, body coat, and topcoat, which is recommended for abusive environments.

MIXING

For ease of mixing and placement, the temperature of the "A" and "B" components should be between 70°F to 80°F (20°C to 26°C). *Mixing times may vary based on the quantity of product used and the temperature that the material is conditioned to.*

IMPORTANT NOTE: Before combining the "A" and "B" components, always pre-mix them *separately* in their respective cans to ensure the contents are uniformly blended.

After pre-mixing, combine the "A" and "B" components in a third mixing vessel. Using a slow-speed drill equipped with a Jiffy-type impeller-type mixing paddle, immediately mix for TWO MINUTES to ensure all raw material and pigments are dispersed uniformly. **DO NOT ATTEMPT TO STIR BY HAND USING A STIR STICK OR OTHER OBJECT.**

APPLICATION

Pour all liquid material onto the properly prepared concrete substrate or next lift in ribbons and squeegee the material out evenly. Back-roll and cross-rolling of material. Check for desired wet film thickness with a WFT Gauge. If broadcasting aggregate, such as 60 mesh or 90 mesh, broadcast a sprinkle (not full broadcast) into the wet material.

SKID-RESISTANCE

Skid-Resistance – Field (in situ) Wet Dynamic Coefficient of Friction (DCOF), ANSI A326.3.

SHIPPING AND STORAGE

Ship and store material between 40°F to 90°F (4°C to 32°C). Store in a dry environment and out of direct sunlight.

SHELF LIFE

Shelf life is 1 year from the date of manufacturer, provide the containers are unopened.

CLEAN-UP

Clean-up mixing station, tools, and equipment as required. Use acetone, a VOC exempt solvent, for cleaning up. Observe all legal, and health, and safety precautions when handling or storing solvents and materials, particularly in confined spaces. Make sure the working areas are well-ventilated at all times during placement and curing time.

DISPOSAL

Dispose of empty packaging and other waste following federal, state, province, and local regulations.

MAINTENANCE

Inspect the installed floor by spot cleaning and spot repairing the damaged or cracked areas. To prolong life of the flooring system, a daily maintenance program is highly recommended to ensure the floor is safe for its intended purposes.

TECHNICAL SUPPORT

For questions, contact a Desert Polymer Flooring representative.

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LIMITED WARRANTY

Desert Polymer Flooring warrants its products to be free of manufacturing defects and that they will meet Desert Polymer Flooring current published physical and chemical properties. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by Desert Polymer Flooring of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Desert Polymer Flooring shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Desert Polymer Flooring shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Desert Polymer Flooring reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Desert Polymer

Flooring makes no claim that these tests or any other tests, accurately represent all environments.

FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINERS TIGHTLY CLOSED.

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