EASYFLO™ 88 VOC

TECHNICAL DATA SHEET

Solvent Based, High Solids, High Performance, UV Stable, Polyaspartic – Clear Gloss

PRODUCT ID: SS-88A2G, SS-88B1G

PRODUCT DESCRIPTION

EASYFLO™ 88 VOC is a clear, 2-component, high solids, solvent-based polyaspartic coating product that gives you an extended working time. It is a tough, durable, UV-stable coating that has been specifically engineered as an easy-to-use topcoat sealant for all SLABHARD floor coating systems. EASYFLO™ 88 VOC delivers excellent chemical and abrasion resistance while providing an added protective layer to prolong the longevity of epoxy-based coatings. EASYFLO™ 88 VOC is used as an upgraded topcoat on Desert Polymer Flooring's products and systems used in aircraft hangars, industrial kitchens, automotive showrooms and shop floors, commercial laboratories and research facilities, hospital and health care, wine and spirit processing and other facilities subjected to heavy foot traffic, forklift traffic and chemical attack. 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
- Food and Beverage Floors
- Hospital and Health Care Facility Floors
- Laboratory and Research Floors
- Manufacturing and Warehouse Floors
- Pharmaceutical Floors
- Clear coat over decorative systems

BENEFITS

- Complies with USDA, FDA, Food Safety Modernization Act.
- Slip Resistance (ADA)
- 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.
- Requires primer when applied directly to concrete and cementitious overlayments.

COLORS

Clear Gloss

COVERAGE RATE PER GALLON

- Clear Gloss Topcoat: 200 to 260 sq. ft. (18.6 to 24.8 sq. m) WFT 6 - 8 mils (0.15 to 0.20 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.
- 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.

PHYSICAL PROPERTIES @ 77˚F (25˚C) 3-5 DAY CURE DEPENDING ON TEMPERATURE (UNLESS OTHERWISE STATED)	
VOC (Volatile Organic Compounds), (VOC Calculated Per ASTM D3960)	< 50 gr./lt.
Solids Content, by Volume (Clear Gloss)	88.0% +/- 2%
Pot Life, 100 gr. Mass, Pot Life is Reduced by Increases in Mass & Temperature	40 Minutes
Mix Ratio, by Volume	2:1
Minimum Application Surface Temperature	60˚F
Dry to Touch	6 - 8 Hours
Light Traffic	24 Hour
Vehicle Traffic	3 Days
Full Chemical Resistance	5 Days
Shelf Life (shipped and stored) at 40˚F to 100˚F (4.4˚C to 38˚C)	1 Year
VOC (Volatile Organic Compounds), (VOC Calculated Per ASTM D3960)	< 50 gr./lt.
Solids Content, by Volume (Clear Gloss)	88.0% +/- 2%
Packaging 3 gal, 15 gal (11.4 lt., 3.79 lt., 56.9 lt.)	

MECHANICAL PROPERTIES @ 77˚F (25˚C) 7 DAY CURE	
Gloss Index, 60 Degrees Clear Gloss, ASTM D523	90 - 95
Tensile Strength, ASTM D412	5400 psi
Tensile Elongation, ASTM D412	15 - 20%
Abrasion Resistance, ASTM D4060, 500 cycles, Wheel No. CS17, 1000 gr. Load	0.02 gr.
Microbial (fungi) Resistance, ASTM G21 (Without the Anti-Microbial Agent)	Pass #1
Wet Dynamic Coefficient of Friction, ASNI 326.3	>0.45 (inclines)
Depends on texture of system selected, ranging from smooth or aggressive. Measured with BOT 3000E equipment.	>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 a Desert Polymer Flooring representative.	

Note: Although 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

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). Refer to appropriate Technical Data Sheet limits.

CHECK TEMPERATURE & HUMIDITY

Floor and material temperature must be at or above the published Technical Data Sheet. Dew Point must be 50F (30F) or more below the surface temperature. Do not apply if humidity is at or above 85%.

SURFACE PREPARATION

Surface preparation in accordance with: 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™ 88 VOC**. Pour, squeegee and back-roll suggested, because Dip-n-Roll can be challenging for inexperienced installers resulting in unattractive lap lines.

MIXING

For ease of mixing and placement, the temperature of the "A" and "B" components should be between 70^0F to 80^0F (20^0C to 26^0C). Pre-mix the "A" and "B" component to ensure all raw material and pigments are dispersed uniformly.

APPLICATION

After mixing all contents as instructed, immediately pour all liquid material on to 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. Place all steps.

SKID RESISTENCE

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 in accordance with federal, state, provinces 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.

LIMITED WARRANTY

Desert Polymer Flooring warrants its products to be free of manufacturing defects and meets all Desert Polymer Flooring's current published physical properties. Desert Polymer Flooring's sole responsibility shall be to replace the portion of any product proved 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 the use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee pertaining to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator will be issued. 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 technical bulletins, installation guidelines, guidelines, recommendations, statements, specifications, and technical data contained herein are based on information and tests. The accuracy and completeness of such tests are not guaranteed and are not to be construed as a warranty, expressed or implied. It is the responsibility of the user to document information and tests to determine the intent of the product for ones' own use. The application, job conditions and user assume all risks and liability resulting from use of the product. We do not suggest or guarantee any hazards 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 written or verbal, 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. Not responsible for any typographical errors.

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