



SLABREZ™ 100

TECHNICAL DATA SHEET

Water-Based Epoxy Primer & Base Coat

PRODUCT ID: SS-255G

PRODUCT DESCRIPTION

SLABREZ™ 100 is an easy to use three component system consisting of Parts A & B supplied by Desert Polymer Flooring, and a third component, potable water. It cures rapidly and it can be applied to dry or damp concrete. It is available in clear or pigmented formulations and is designed to be used as a primer under epoxies and pigmented polyurethanes. This epoxy can also be used as a receiving coat for decorative vinyl chip systems when used over a primed surface. When top coated, it creates an economical thin mil epoxy coating. It is VOC Compliant in all states and provinces in North America.

TYPICAL USES

- General purpose primer with excellent wetting capabilities
- Rapid curing
- Can be used over properly prepared concrete that's dry or damp SSD. (saturated surface dry)
- It is recommended as a pigmented primer under Desert Polymer Flooring Metallic Pigments.
- Can be used as an economical "light duty" thin mil coating system

BENEFITS

- Complies with USDA, FDA, Food Safety Modernization Act, LEED® and Green Seal® requirements.
- VOC and EPA Compliant in all states and provinces in North America. Cures to an inert finish.
- Excellent Adhesion to dry or damp concrete surfaces
- Designed for new floors and for resurfacing old floors

LIMITATIONS

- This product is best suited for applications in temperatures 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 faster drying time.

COLORS

- When used as a Primer "Clear Only", do not pigment, unless used under Desert Polymer Flooring Metallic Pigments.
- Available in all 12 standard colors.

COVERAGE RATE PER GALLON

- Primer: 160 to 200 sq. ft. (14.9 to 18.9 sq. m.) 8 to 10 mils (WFT)
- Pigmented Coating over Clear Primer: 160 sq. ft. (14.9 sq. m.) 10 mils (WFT)

HANDLING AND SAFETY

Warning! Eye and skin irritant. May cause dermatitis and sensitization. Always read and follow the product SDS. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, mist and spray. Use with good ventilation.

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)

- 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 Desert Polymer Flooring SLABLOC® 50.
- Contaminants include, but are not limited to, organic hydrocarbon materials, calcium chlorides and aluminum stearates.
- Concrete flooring slabs 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.

PHYSICAL PROPERTIES @ 77°F (25°C)	
VOC (Volatile Organic Compounds), (VOC Calculated Per ASTM D3960)	50 gr./lt.
Standard Viscosity Clear, Mixed Epoxy, Hardener and Water	100 - 150 cps
Percent Solids by Volume, Clear	40% - 42%
Percent Solids by Volume, Pigmented	44% - 46%
Pot Life, 1 gallon (3.79 liters) Mass, Pot Life is Reduced by Increases in Mass and Temperature	1 - 2 Hours
Mix Ratio, by Volume (Resin, Hardener and Potable Water)	4:1:1
Dry to Touch	2 Hours
Recoat Time	8 - 10 Hours
Light Traffic	24 Hour Minimum
Full Cure	5 to 7 Days
<ul style="list-style-type: none"> • Relative humidity in excess of 70% will retard cure times. Enhanced air movement will help flash off the moisture in the product. • The higher the temperature and the lower the humidity the shorter the cure time. • The lower the temperature and the higher the humidity the longer the cure time. 	
Shelf Life (shipped and stored) at 40°F to 100°F (4.4°C to 38°C)	1.5 Years
Packaging 3/4 gal. (2.8 ltr.)	

MECHANICAL PROPERTIES @ 77°F (25°C)

Surface Preparation ICRI 310.2R Concrete Surface Profile (CSP 2 and above) Depending on System to be Installed and Condition of Concrete.	
Resin, Hardener and Potable Water	Standard
Gloss (60 degrees), ASTM D523	85 - 90
Pencil Hardness, ASTM D3363	F-H
Adhesion, ASTM D7234, Concrete Failure	>400 psi
Flexibility (Mandrel Cylinder 1/4 Inch), ASTM D1743	Passes
Microbial (fungi) Resistance, ASTM G21 (Without the Anti-Microbial Agent)	Pass #1
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

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 5°F (3°F) 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
- A disposable 3-inch brush for cutting in
- A 1/2-inch nap non-shedding phenolic core roller
- A 5-7 mil notched squeegee
- A clean 5-gallon pail or roller pan

OPTIONAL ANTIMICROBIAL

The antimicrobial additive Silver® (sodium hydrogen zirconium phosphate) 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 (21°C to 27°C). Pre-mix the "A" and "B" components for one minute to ensure all raw material and pigments are dispersed uniformly. **IMPORTANT: You must add one (1) quart potable water and mix for another minute.** Box pigmented products if using different lot numbers to ensure uniformity of color.

APPLICATION

After mixing all contents as instructed, immediately pour all liquid material on to the properly prepared concrete substrate in ribbons and squeegee the material out evenly. Back-roll and cross rolling of material is critical. Check for desired wet film thickness with a WFT Gauge.

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 water or acetone for cleaning up. Observe all legal, 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 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.

© 2021 Desert Polymer Flooring Inc. All rights reserved. REV202102