



SLABREZ™ 500

TECHNICAL DATA SHEET

High Build Pigmented Epoxy Binder designed to Receive Broadcasted Vinyl Chips

PRODUCT ID: SR-5001A, SR-5002B, SR-5003B, SR-5004B, SR-5005B, SR-5006B, SR-5007B, SR-5008B, SR-5009B, SR-5010B

PRODUCT DESCRIPTION

SLABREZ™ 500 is a two component, high build, high pigmented load epoxy binder that is especially designed to receive Desert Polymer Flooring's vinyl chips systems. It is self-priming and is formulated as a moisture tolerant epoxy binder that bonds tenaciously to dry or damp concrete. It can be applied directly to "surface saturated dry" (SSD) concrete slabs on grade (with no standing water). The high pigment load design means that it can easily hide concrete between 160 to 200 square feet (14.9 to 18.9 sq. m) in a single coat application. It has ample working time to cut-in, apply, and broadcast the vinyl chips. **SLABREZ™ 500** Accelerator (6 wt. oz. per 2 gal) is available when rapid cure is required. It is VOC Compliant in all states and provinces in North America.

TYPICAL USES

A Decorative Floor – An Economical Terrazzo Look

- Classroom Floors
- Garage Floors
- Locker Room and Restroom Floors
- Restaurant Floors
- Retail Store Floors
- Hospital and Health Care Facility Floors
- Laboratory and Research Floors
- Pharmaceutical Floors
- Schools and Universities

BENEFITS

- Complies with USDA, FDA, Food Safety Modernization Act.
- Slip Resistance (ADA) compliant
- 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
- 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).
- Higher temperatures will result in shortened working time and faster drying time.
- Color may vary due to batch to batch variation, always "box" different batches to avoid it.

COLORS

In nine colors (only): Anchor, Black, Harvest, Hickory, Ivory, Legendary, Parchment, Sedona, Slab Grey and Smoke. Not available in pigment packs.

COVERAGE RATE PER GALLON

- Self-Priming Receiving Coat: 160 to 200 sq. ft. (14.9 to 18.9 sq. m.) 8 to 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)

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.

Dry to Touch	8 Hours	2 Hours
Foot Traffic	12 Hours	4 Hours
Full Cure (Vehicular Traffic)	5 Days	3 Days

PHYSICAL PROPERTIES @ 77°F (25°C)	
VOC (Volatile Organic Compounds), (VOC Calculated Per ASTM D3960)	50 gr./lt.
Standard Viscosity Clear, Mixed Epoxy and Hardener	4,000 cps
Mix Density Clear, Mixed Epoxy and Hardener	11.0 lbs./gal
Pot Life, 1 gallon (3.79 liters) Mass, Pot Life is Reduced by Increases in Mass and Temperature	90 Minutes
Pot Life, with Accelerated, 1 gallon (3.79 liters) Mass, Pot Life is Reduced by Increases in Mass and Temperature	45 Minutes
Mix Ratio, by Volume	1:1
Shelf Life (shipped and stored) at 40°F to 100°F (4.4°C to 38°C)	1.5 Years
Packaging 1 and 10 gal. (3.9 and 37.9 liters)	

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.	
Adhesion, ASTM D7234, Concrete Failure	>400 psi
Water Absorption, ASTM D570 Resin & Hardener	0.1%
Hardness (Shore D) ASTM D2240	75 – 85
Flame Test, ASTM E648	Class 1
Flammability, ASTM D635	Self-Extinguishing Bonded to Concrete
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 the 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.

MECHANICAL PROPERTIES @ 77°F (25°C)		
	STANDARD	WITH EPOXY ACCELERATOR

CHECK CONCRETE MOISTURE

Concrete can be damp or “surface saturated dry” (SSD) or dry before application of this floor coating. 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 5°F (3°C) 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: Disposable 3" brush for cutting in, variable low speed drill (450 rpm) with Jiffy® type impeller mixing paddle, 3/8 inch nap non-shedding phenolic core roller and frame, and V-notched rubber squeegee.

OPTIONAL ANTIMICROBIAL

The antimicrobial additive Silver® (sodium hydrogen zirconium phosphate) is a non-heavy metal biocide that can be added during the manufacturing process. (EPA Regulation Number 11631.2. and US Patent Number US 9,247,736 B2). 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 recommend-ed 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

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. Broadcast chips into the wet material.

SKID RESISTENCE

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

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 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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