



SLABLOC® 50

TECHNICAL DATA SHEET

PRODUCT ID: SL-501A, SL-502B

Water Base, Water Extended, Low Viscosity, High Performance Clear Epoxy Primer

PRODUCT DESCRIPTION

SLABLOC® 50 is a High Performance 3-component water borne epoxy primer coating. It is sold as a two-component kit that is field extended with the third component, potable water. It is designed to field extend with potable water to reduce its overall viscosity to improve penetration of the concrete substrate. It may enhance bond when residual contaminants are still in properly prepared concrete, such as residual sodium silicate, potassium silicate or lithium silicate surface hardeners or curing agents. It is the only primer formulated for use under Desert Polymer Flooring SLABLOC™ 100 the company's Moisture Vapor Barrier Epoxy. In addition, it can be used under all other Desert Polymer Flooring epoxy and polyurethane products and systems. It is VOC Compliant in all states and provinces in North America.

TYPICAL USES

- A high adhesion primer with excellent wetting capabilities
- Can be used over properly prepared concrete that has been contaminated with sodium silicate, potassium silicate and lithium silicate surface hardener and curing agents
- Can be used as a pre-primer prior to placing SLABLOC™ 100 Moisture Vapor Barrier Epoxy
- Can be used over green concrete after 3 days of initial pour
- This unique material has been tested to hold up to 13lbs. of M.V.T. (Moisture Vapor Transmission) when used as a primer under epoxy and polyurethanes.

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.
- Strong Adhesion
- Designed for new floors and for resurfacing old floors
- Helps prevent outgassing when coated over with 100% solids epoxies

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.
- Will react negatively to battery acid-damaged concrete

COLOR

- Clear only

COVERAGE RATE PER GALLON

- Primer: 160 to 200 sq. ft. (14.9 to 18.9 sq. m.) per gallon. 8 to 10 mils (0.20 to 0.25 mm) 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, SLABLOC™ 50 can still be used.

- Contaminants include, but are not limited to organic hydrocarbon materials, calcium chlorides and aluminum stearates.
- Please be advised that concrete flooring slabs can lose their structural strength over time, caused by conditions beyond the control of the flooring manufacturer or the installation contractor.
- Also, please be advised that 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 @ 77F (25°C) | |
|---|--------------|
| VOC (Volatile Organic Compounds), (VOC Calculated Per ASTM D3960) | <5 gr./lt. |
| Pot Life, 1 gallon (3.79 liters) Mass, Pot Life is Reduced by Increases in Mass and Temperature | 2 -3 Hours |
| Mix Ratio, by Volume A and B Components, plus potable water | 4:1:1 |
| Dry to Touch 50°F to 90°F (10°C to 32°F) | 4 to 6 Hours |
| <ul style="list-style-type: none"> • Relative humidity in excess of 80% it 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 | |

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| Shelf Life (shipped and stored) at 40°F to 100°F (4.4°C to 38°C) | 1.0 Year |
| Packaging 3/4 gal. (2.83 liters) | |

| 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. | |
| Adhesion ASTM D7234, Concrete Failure | >400 PSI |

NOTE: Although testing is critical, it is not a guarantee against future problems. This is especially true if there is no vapor barrier, or it is not functioning properly and/or concrete is contamination from oils, chemical spills, densifiers, excessive salts or other bond breakers. If moisture or relative humidity exceeds the limits consult a Desert Polymer Flooring representative.

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CHECK CONCRETE MOISTURE

SLABLOC™ 50 can be used as a pre-primer for SLABLOC™ 100 when the concrete slab is suspected of being contaminated with bond breakers, such as, sodium silicates, potassium silicates, lithium silicates even after proper surface preparation.

CHECK TEMPERATURE AND 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: 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, roller frame and V-notched rubber squeegee.

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" component for two full minutes to ensure all raw materials are dispersed uniformly and then add 1-quart potable water. Mix for one additional minute.

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 for cleaning up. 97

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.

WARRANTY AND DISCLAIMER

Please read all information in the Safety Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. Desert Polymer Flooring Products are for "Professional Use Only" and preferably applied by professionals who have prior experience with the Desert Polymer Flooring Products or have undergone training in application of Desert Polymer Flooring Products. Published technical data and instructions are subject to change without notice. Contact your local Desert Polymer Flooring representative or visit our website for current technical data, instructions, and project specific recommendations.

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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