



SLABSEAL™ 35

TECHNICAL DATA SHEET

Water Base, Low Viscosity, Acrylic Grout and Sealer

PRODUCT ID: SS-351G, SS-355G

PRODUCT DESCRIPTION

SLABSEAL™ 35 is a single component, waterborne, ultraviolet-stable, high-performance, fast drying acrylic emulsion. It is used as a vinyl chip clear grout coat or as a concrete and cementitious overlayment sealer for the vinyl chips.

As a grout coat, it is placed at 200 sq. ft. (18.6 sq. m.) per gallon.

As a sealer can used as a clear or pigment sealer for Concrete and Cementitious Overlays. It is available in clear or it can be factory pigmented. It is placed at 300 to 350 sq. ft. (27.9 to 32.5 sq. m.) per gallon.

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

TYPICAL USES

- Vinyl Chip Grout Coat
- Sealer for Concrete and Cementitious Overlays

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.
- UV Light stable
- Strong Adhesion
- Designed for new concrete and for sealing old concrete

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%.

COLORS

- Use as a Clear Sealer
- When used as a Pigmented Clear it can be factory pigmented. Not available in Fast Red, Rich Blue, Leaf Green or Safety Yellow.

COVERAGE RATE PER GALLON

- Grout Coat 200 sq. ft. (18.6 sq. m.) 8 mils (WFT)
- Sealer for Concrete and Cementitious Overlays, more than one seal coat maybe required on aggressive or porous surfaces. Place at 300 to 350 sq. ft. (27.9 to 32.5 sq. m.) 4.6 to 5.3 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.

PHYSICAL PROPERTIES @ 77°F (25°C)	
VOC (Volatile Organic Compounds), (VOC Calculated Per ASTM D3960)	<100 gr./lt.
Standard Viscosity Clear	250 – 300 cps
Percent Solids, Clear by Volume	35% to 38%
Percent Solids, Pigmented by Volume	45% to 48%
Mix Ratio, by Volume	Single Component
Recoat Time	30 to 60 Minutes
Light Traffic	4 to 6 Hours
Full Cure	3 Days
Shelf Life (shipped and stored) at 40°F to 100°F (4.4°C to 38°C)	1.5 Years
Packaging 1 gal. and 5 gal. (3.8 lt. and 18.9 lt.)	

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	<0.1%

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%. 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.

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.

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 top coat, which is recommended for abusive environments.

MIXING

Single components should be premixed. For ease of mixing and placement, the liquid should be between 70°F to 80°F (21°C to 27°C). Mix the liquid thoroughly to ensure all raw materials and pigments are dispersed uniformly. Box pigmented products if using different numbers for uniformity of color.

APPLICATION

After mixing all contents as instructed, the material can be placed by squeegee and backroll or applied with a Hudson type sprayer and backroll. (Dip and roll is not recommended because it may leave lap lines and start/stop lines. 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 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.

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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