

PHYSICAL PROPERTIES

VOC	.....	<50 g/L
SOLIDS CONTENT	.....	100%
MIX RATIO	.....	1A:1B:1C:1D
COVERAGE RATE	.....	37-42 ft ² /kit
APPLICATION TEMP	.....	50°-90°F
POTLIFE 1 Kit @ 75°F	.....	15 Minutes
DRY TIME @ 75°F	.....	15-30 Minutes
RECOAT WINDOW	.....	N/A
OPEN TO TRAFFIC	.....	24 Hours
FULL CURE	.....	7 Days
PACKAGING	.....	72 LBS

MECHANICAL PROPERTIES

TENSILE STRENGTH	.....	2.1N/mm ² @73°F
FLEXURAL STRENGTH	.....	3.0N/mm ²
COMPRESSIVE STRENGTH	.....	3.0N/mm ²

CHEMICAL RESISTANCE

Refer to Optus Technical Bulletin 9: Chemical Resistance Guideline.

PRODUCT DESCRIPTION

AquaSCREED is a four component, heavy duty epoxy floor screed designed to provide excellent wearing surface course and good chemical resistance to concrete substrates. Its textured finish will also give a soft texture that is soft on foot, and added slip resistance where needed. Aquascreed's sleek modern look, combined with its superior strength, is ideal for seamless concrete resurfacing. AquaSCREED should only be used indoors. Add our urethane topcoat for additional abrasion resistance. For exterior applications reference AquaSCREED-UV.

TYPICAL USES

- Plant rooms
- Leisure Centers
- Retail Complexes
- Hotels
- Interior Pool Decks
- Locker Rooms

BENEFITS

- Withstands heavy loads
- Abrasion resistant
- Good Chemical Resistance
- Seamless and Hygienic
- Regulates uneven floors
- Excellent color uniformity between batches
- Solvent Free
- Available with Biocote® antimicrobial technology. Inquire with an Optus Resin Representative for details

COLORS

(Custom color options available)



Black Absinthe



Blue Lagoon



Blue Mist



Commercial White



Grey Reef



Midnight Blue



Sahara Sand

LIMITATIONS

- Higher temperatures will result in shortened working times and faster drying times.
- Interior use only.

- May amber with exposure to UV
- Will not bridge cracking

SHELF LIFE

1 Year from Date of Manufacture on Packaging, provided unopened.

STORAGE

Store in a dry environment at room temperature and out of direct sunlight.

APPLICATION EQUIPMENT

- Personal Protective Equipment
- Mixing Paddle
- Corded Drill
- 18" Spiked Roller
- Screeed Trowel (or similar)
- Forced Action Mixing Vessel
- Gauge Rake

SURFACE DIAGNOSTICS

Concrete must be structurally sound and free of all contaminants and bond breakers. Test concrete compressive strength using a Schmidt or Rebound Hammer to ensure substrate has compressive strength of 3500 psi or higher.

Perform a pH test using concrete pH test strips or meter to ensure substrate pH is between 9-12.

Perform Moisture Test using either Calcium Chloride per ASTM F1869 or In-Situ Relative Humidity Probe per ASTM F2170 to ensure substrate has Moisture Vapor Emission Rate of 3 psi or less and Relative Humidity of 80% or less. See Optus Technical Bulletin 6: Moisture Mitigation Negative Side Moisture Barrier.

If Moisture Vapor Emission Rate is above 15 psi but below 25 psi and relative humidity is above 80% but below 99% then apply Moisture Barrier CS Primer first at 16 mils with a coverage rate of 225 Ft²/Per kit.

SURFACE PREPARATION

Use Mohs scratch test to determine concrete hardness for proper diamond bond selection. Primer Coat(s) are required before installation of AquaSCREED.

Concrete should be mechanically profiled and prepared to produce a Concrete Surface Profile (CSP) level between #2 & #4 per ICRI Guideline no. 310.2R. See Optus Technical Bulletin 1: Concrete Surface Preparation. All perimeter areas of coating termination shall be masked for protection. Saw cut and key-in all termination points.

SURFACE REPAIR

All depressions, divots and cracks should be profiled and free of dust and contaminants. Repair surface imperfections to reduce the ability to see the defect through the coating. OPTI-JOINT & OPTI-PATCH are recommended products for these repairs.

Honor all dynamic (moving) joints, static joints may be filled, use dynamic joints as initiation and termination points during application process where needed.

TEMPERATURE EVALUATION

Ambient and substrate temps should be above 5°F and a minimum of 5°F above Dew Point.

Product temps should be between 60-80°F. Relative Humidity should not exceed 80%. See Optus Technical Bulletin 7: Temperature & Relative Humidity.

REFER TO SAFETY DATA SHEETS (SDS) FOR SAFETY PRECAUTIONS.

SAFETY PRECAUTIONS MUST BE FOLLOWED DURING STORAGE, HANDLING AND USE.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

SHALL BE WORN AT ALL TIMES INCLUDING BUT NOT LIMITED TO LONG SLEEVE SHIRTS OR DISPOSABLE ARM SLEEVES, SAFETY GLASSES, DISPOSABLE NITRILE GLOVES, AND PROPERLY FITTED NIOSH RESPIRATORS

ALL SOURCES OF IGNITION SHOULD BE TURNED OFF AND ENVIRONMENT SHOULD HAVE PROPER AND ADEQUATE VENTILATION DURING APPLICATION AND CURING PROCESS.

MIXING AREA SHOULD BE PLACED ON OR IN CLOSE PROXIMITY TO PROJECT. AREA SHOULD BE SECURELY COVERED WITH PLASTIC, CARDBOARD, OR TARP. STAGE MATERIALS, TOOLS, AND CLEANING SUPPLIES IN MIXING AREA PRIOR TO APPLICATION PROCESS.

DO NOT MIX MORE MATERIAL THAN CAN BE APPLIED IN 10 MINUTES.

MIXING PROCEDURE

1 Add all of the curing agent, pack B, to all of the resin component, pack A and mix thoroughly in a 5 gallon bucket for sixty seconds.

2 Add the graded filler component, pack C, and AquaBRIGHT, pack D, into the forced action mixer while mixing continues gradually add the pack A&B to the forced action mixer and let mix for 2 minutes.

COVERAGE RATE

37-42 Ft² laid at a thickness of between $\frac{3}{16}$ " and $\frac{1}{4}$ "

COVERAGE RATE MAY VARY DEPENDING ON SUBSTRATE POROSITY.

WORKING TIME

15 Minutes @75°F

WARMER AMBIENT, PRODUCT AND SURFACE TEMPERATURES, AS WELL AS HIGHER HUMIDITY LEVELS, WILL SHORTEN POTLIFE AND WORKING TIME.

APPLICATION PROCEDURE

One of Optus's primers or epoxies or primers needs to be applied to create a tack coat for aquascreed to bind to. Alternatively a primer coat with quartz can also be used to provide a mechanical key.

1 Spread the surfacing material onto the application area and spread to approximate level using a screed trowel or similar.

MIXED MATERIAL SHOULD NOT REMAIN IN BUCKET

2 Using a trowel, spread and compress surfacing material to its final level standing frequently to verify the evenness of the application. Keep the trowel clean with solvent which will also assist with the final finishing.

3 Ensure the rate of coverage is sufficient to enable adjacent mixes to meld smoothly into one another. Joints in concrete must be taken through the surfacing. Edge bead may be used to honor joints. If using urethane topcoat this must be applied within 24 hours of AquaSCREED being installed.

 Allow coating to dry 24 Hrs @ 75°F.
Do not force dry.
Recoat: N/A

SLIP RESISTANCE

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

See Optus Technical Bulletin 4: Coefficient of Friction.

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. To prolong life of the flooring system, a daily maintenance program is highly recommended to ensure the floor is safe for its intended purposes. See Optus Technical Bulletin 8: Care and Maintenance.

TECHNICAL SUPPORT

For questions, contact an Optus Resin Representative. Additional Support Documents are available from Optus Resin, including brochures, application guidelines, videos and more. Visit www.optusresin.com or contact Optus Resin for additional resources.

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 product limitations 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 products. 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 an authorized corporate officer of 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 Manufacturer makes no claim that these tests or any other tests accurately represent all environments. Manufacturer is not responsible for typographical errors.

Reference Optus Resin website www.optusresin.com for additional Optus Technical bulletins and SDS sheets.



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