

PHYSICAL PROPERTIES

VOC	.....	<0.00 g/l
SOLIDS CONTENT	.....	100%
MIX RATIO	.....	Full Kit
COVERAGE RATE	.....	1st Coat: 700 ft²/kit 2nd Coat: 400 ft²/kit 3rd Coat: 400 ft²/kit
APPLICATION TEMP	.....	55°-90°F
POTLIFE 1 Kit @ 75°F	.....	20 Minutes
DRY TIME @ 75°F	.....	24 Hours
RECOAT WINDOW	.....	2-12 Hours
FULL CURE	.....	5-7 Days
PACKAGING	.....	6 KG

CHEMICAL RESISTANCE

AquaMAX exhibits excellent resistance to a wide range of chemicals, and is fully resistant to the following:

- 10% Sulphuric Acid
- 10% Hydrochloric Acid
- Petrol
- Skydrol
- 20% Sodium Hydroxide
- Ethylene Glycol
- Methyl Ethyl Ketone
- Trichlorethylene

Refer to Optus Technical Bulletin 9: Chemical Resistance Guideline.

PRODUCT DESCRIPTION

AquaMAX is a high-performance, two-component, water-based epoxy coating designed for concrete substrates. It serves as a hard, durable, and abrasion-resistant finish, making it ideal for pools and spas where superior chemical resistance is essential. AquaMAX is applied in three coats and available in a full range of colors with a semi-gloss finish. Anti-slip additives can also be included upon request to enhance surface traction.

TYPICAL USES

Pools | Spas | Fountains | Tanks

Note: AquaMAX is designed for use on concrete, fiberglass, gunite, and marcite surfaces, provided the substrate is sound and solid. For steel or aluminum applications, please contact an Optus Resin representative.

BENEFITS

- UV Resistant
- Chemical Resistant
- Can be applied to damp substrates
- Hygienic
- Zero VOC system
- Solvent free/environmentally friendly
- Mild odour
- Easy to apply, using brush or roller
- Allows floors to breath
- Cures to an inert finish. See Optus Technical Bulletin 2: VOC Compliance.

COLORS

				
Daybreak	Sandstone	Sea Monster	Arctic Frost	Atlantis
				
Lochness	Hammerhead	Kraken	Orca	Pearl

LIMITATIONS

- Higher temperatures will result in shortened working times and faster drying times.
- Color may vary due to batch-to-batch variation, if possible request the same batch lot.
- Use Resitech CS Primer when MVT exceeds 15 p.s.i
- Exposure to UV can change color fastness over time.
- 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
- Jiffy Mixing Paddle
- Drill
- 1/4" x 3/8" Nap Shedless Roller Cover
- 5-7 Mil Notched Squeegee
- 4" Chip Brush
- Spike Shoes

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 15 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 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.

Substrate should be acid washed and neutralized, or mechanically profiled and prepared to produce a Concrete Surface Profile (CSP) level between #1 & #2 per ICRI Guideline no. 310.2R. Ensure that any existing coatings have been removed or verify inter-coat adhesion. All perimeter areas of coating termination shall be masked for protection.

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.

**LEAVE EPOXY IN POT.
EPOXY SHOULD BE APPLIED IN 10 MINUTES**

MIXING PROCEDURE

PRIMER COAT

1. **MUST USE FULL KIT.** Add 20 oz. of bottled water into **HARDENER (Bucket A)**, mix for 60 seconds with squirrel mixer.
2. Pour **Bucket B (RESIN)** into a larger bucket.
3. Mix for 60 seconds. Then, add **Bucket A (HARDENER)** to the larger bucket. Mix again for 60 seconds.

SECOND COAT (DO NOT ADD WATER)

1. Pour **Bucket B (RESIN)** into a larger bucket.
2. Mix for 60 seconds. Then, add **Bucket A (HARDENER)** to the larger bucket.
3. Again mix, for 60 seconds.

THIRD COAT (DO NOT ADD WATER)

1. Pour **Bucket B (RESIN)** into a larger bucket.
2. Mix for 60 seconds. Then, add **Bucket A (HARDENER)** to the larger bucket.
3. Again mix, for 60 seconds.

COVERAGE RATE

400-700 Ft² / Kit

COVERAGE RATE MAY VARY DEPENDING ON SUBSTRATE POROSITY.

WORKING TIME

10-15 Minutes @75°F

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

APPLICATION PROCEDURE

1. Cut-in edges using a 4" chip brush. Do not allow wet edges to stand more than 10 minutes ahead of application of main body of floor.

MIXED MATERIAL SHOULD REMAIN IN BUCKET

2. Pour a band of mixed material across the surface roughly 6-8" wide. Use a 5-7 mil notched squeegee or dip and roll to gauge material across surface.
 - Maintain wet edge
 - Always pour next mixed batch onto wet edge
 - Do not apply heavier than recommended coverage rates
3. Back roll the surface with 1/4" x 3/8" nap roller by walking into the wet material wearing spike shoes and roll the surface wall to wall with overlap perpendicular to your first pass.
 - Do NOT overwork material



Allow coating to dry 24 Hrs @ 75°F.
Do not force dry.
Recoat: 2-12 Hrs

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

Soapy water should be used for cleaning tools, etc.

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. *[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 the Optus Resin website www.optusresin.com for additional Optus Technical bulletins and SDS sheets.