

UC-110

SEAMLESS URETHANE CEMENT SYSTEM

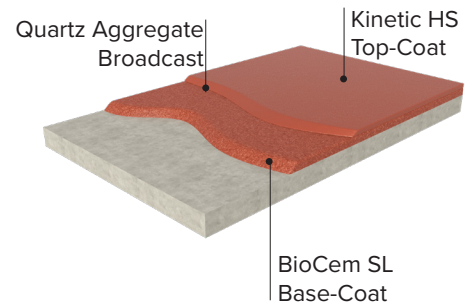
UC-110 is a self-leveling polyurethane cement application that will achieve a thickness of 3/16". It consists of a basecoat of BioCem™ SL at 1/8" that is broadcast to rejection with specialized quartz aggregate. Once cured, the application is top-coated with high-performance Kinetic™ HS polyaspartic top-coat. UC-110 provides a textured surface ideal for medium duty applications requiring enhanced resistance to thermal shock, impact and chemical attack. It is commonly used in commercial kitchens as well as food preparation areas. UC-110 is compliant with the California Department of Public Health standard method V1.2 and is eligible for LEED credits as per USGBC LEED Version 4/4.1.

Applications

- Kitchens
- Food Prep Areas
- Small Breweries
- Wet areas
- Industrial

Features:

- Resistant to thermal shock & impact
- Moisture Vapor Resistant
- Low odor & minimal voc
- Superior abrasion resistance & traction
- Seamless with integrated cove base



Colors & Finishes

Available in standard Resinwerks Universal Pigment colors with custom colors available upon request. Please contact Resinwerks directly for a color selection chart. UC-110 will leave a matte finish once cured. Please coordinate sample requests with your Resinwerks representative.

System Components

- 1. Base-Coat:** BioCem™ SL Urethane Cement is applied at 1/8". Kit components include 1-gallon of part A, 1-gallon of part B and One 42-lb. filler. Pigment may be added at a rate of 1 pigment pack per kit.
- 2. Broadcast Media:** UC-110 is designed as a textured system for enhanced slip resistance. The system includes a sand/quartz aggregate broadcast into the base-coat to rejection. Resinwerks recommends industrial "F" style aggregate or solid-color 40-S size quartz is adequate depending on the desired finish.
- 3. Top Coat:** Kinetic™ HS is a pigmented high-solids polyaspartic aliphatic polyurea topcoat. It is available as a 1:1 mix in either 2-gallon or 10-gallon kits. Coverage rates will depend on the application and may range from 130 ft² SF to 180 ft² per gallon.

GENERAL SYSTEM PERFORMANCE - SC-100

TEST TYPE		RESULT
Compressive Strength	ASTMC 695	8,350 PSI
Water Absorption	ASTMD 570	< .1%
Adhesion Pull-Off	ASTMD-4541	+500 PSI concrete fracture
Elongation / Tensile	ASTMD 307	1200 psi
Flexural Strength	ASTMC 580	2500 psi
Flexibility 1/4" cylindrical mandrel	ASTMD 522I	Pass
Static COF	ANSI B101.1	>0.6
Dynamic COF - Wet	ANSI A326.3	>0.42
Impact Resistance	ASTMD 4060	> 160 Inch/Lb

For Professional Use Only

Please reference all product Technical Data and Material Safety Data Sheets prior to use. Mock-ups are strongly recommended to validate appearance and performance prior to use.

SURFACE PREPARATION

Ensure substrate to be coated is clean, dry, and in sound condition. All laitance, curing compounds, concrete hardeners, and other surface contaminants must be removed. Prepare concrete in accordance with ASTM D 4259-83. Mechanical Shot Blasting is recommended to achieve a surface profile of ICRI CSP 3-4. Surface to be coated must be completely porous, thoroughly vacuumed, and free of excessive dust & contaminants.

MOISTURE IN CONCRETE

Concrete slabs should be tested prior to application for elevated moisture vapor emission levels. Resinwerks recommends ASTM F2170-19 standard for determining relative humidity in concrete slabs using RH probes. Consult Resinwerks directly for slabs exhibiting elevated MVER.



DE-GREASING OF CONTAMINATED SUBSTRATES

For concrete substrates containing oil, animal fats, or other carbon based contaminants, slabs should be de-greased appropriately using an enzymatic based concrete de-greasing agent. Multiple applications may be required depending on the level of contamination.

TREATMENT OF JOINTS & CRACKS

Prior to installation of any Resinwerks primer, all joints, cracks and other substrate irregularities must be addressed. For more information on specific joint treatment procedures, please reference Resinwerks joint-treatment guidelines.

COVE BASE

For projects requiring a perimeter vertical cove base, please reference Resinwerks cove base installation guidelines or contact your local Resinwerks representative for more information.

COATING APPLICATION**1. Base-Coat: BioCem™ SL**

- **Mixing:** Review BioCem SL Product Data Sheet Prior to mixing. Prior to mixing, all products should be properly acclimated to the local ambient room temperature of 50°F(4.4°C)-80°F(29.4°C).
- Pour 1-gal A into a large mixing vessel or hippo mixer. Add pigment and mix for 15-seconds with a slow speed mixing drill. Add 1-gallon Part B and mix for an additional 15-seconds. Slowly add entire contents of 40 lb bag of SL filler to mix. Take special care not to introduce air or create a vortex. Mix for approximately 45-60 seconds or until materials are properly mixed.
- **Application:** Immediately following mixing, spread material with a gauge rake at 1/8" thickness. Lay abutting edges within a minimum of 10-minutes to ensure a uniform transition.
- Once material has been spread, back-roll immediately with a spiked roller or loop roller over the entire floor to help release surface tension.
- **Broadcast:** Once BioCem SL has been placed, broadcast aggregate to rejection. Pay special attention to the timing of the broadcast so as to ensure a uniform finish.
- Let cure a minimum of 6-8 hours prior to top-coat.

2. Top Coat: Kinetic™ HS Polyaspartic

- **Mixing:** Prior to mixing, all products should be properly acclimated to the local ambient room temperature of 50°F(4.4°C)-80°F(29.4°C).
- Mix 1-part A to 1-Part B by volume for two minutes using a slow speed jiffy mixer. If pigmenting with Resinwerks Universal Pigments, add pigment at a rate of 10-12 oz per mixed gallon or 1 QT per 3-gallon mix.

Important:

Inhalation of vapor or mist can cause headache, nausea irritation of nose, throat, and lungs. Avoid breathing vapors, it is strongly recommended that respirators are worn. Prolonged or repeated skin contact can cause slight skin irritation. All epoxies have the potential of causing skin irritations or allergic reactions. Be careful not to get on skin, clothes or in eyes. Gloves are strongly recommended. If splashed in the eye, flush with warm water and contact a physician if blurring persists.

Solvent based products are extremely flammable, extinguish all pilot lights and sources of ignition such as electrical motors. Be sure to have adequate cross ventilation prior to installing.

Resinwerks recommends the use of slip-resistant additives in all coating systems that are subject to heavy foot traffic and especially those within wet or oily environments It is the end-user's responsibility to provide flooring that meets current safety standards and local coefficient of friction requirements. Resinwerks nor any of its distributors are responsible for injury resulting from any slip and fall incident.

- **Application:** Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a squeegee or seal-coat broom.
- Immediately back-roll in a direction perpendicular to your initial ribbon with a 3/8" nap roller. Working time and cure schedule will be dependent on ambient temperature and humidity.
- Material will be dry to the touch and ready for subsequent coats within approximately 2-3-hours following application.
- Take caution not to apply material too thick as it will skin over and become cloudy. Installer may reduce Kinetic HS with 2-10 oz of Acetone or Xylene during mixing as desired.
- **Slow Set:** Kinetic HS is available with a slow-set part A for extended working times (approximately 20-30%) in hot and humid conditions.

