SM 100

SIMERRAZZO FLOORING SYSTEM

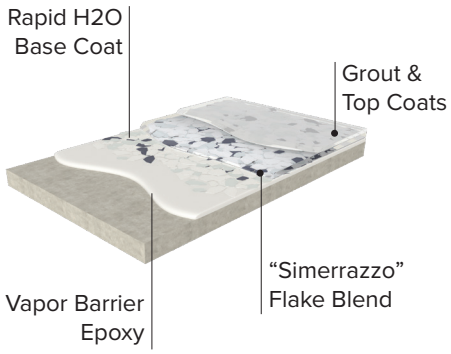
SM-100 “Simerrazzo” is a simulated terrazzo flooring application incorporating high-performance epoxy coatings and a specialized blended flake to provide the look & feel of commercial terrazzo flooring. Installed only by approved Resinwerks flooring contractors, SM-100 provides for a vibrant and contemporary look. Available in a gloss or satin finish and with or without added traction, Simerrazzo systems provide owners with the look and feel of high-end Terrazzo at a fraction of the price and with less installation down-time. The system may be built using a 100% solids vapor barrier epoxy primer for added protection against elevated moisture vapor emission levels.

Applications

- Hospitals
- Education
- Retail
- Residential
- Airports

Features:

- Resistant to high moisture
- High-end terrazzo look
- Low odor & voc
- Superior abrasion resistance
- Color stable



Colors & Finishes

Available in custom Resinwerks “Simerrazzo” blends, colors may be customized to match any environment. The system is available with a gloss or satin finish.

System Components

1. **Primer:** Vapor Barrier Epoxy Resinwerks
   Vapor Barrier Epoxy is a 100% solids chemical resistant moisture mitigation primer.
   Mix Ratio: 2A:1B
2. **Broadcast Coat:** Rapid H2O EP Resinwerks
   Rapid H2O EP is a fast-cure thick-build water-based epoxy primer that is engineered for a consistent and low-textured flake broadcast.
   Mix Ratio: 2A:1B:1H2O. Broadcast to rejection.
3. **Grout Coat (2):** LevelGuard Clear
   LevelGuard Clear is a 100% solids ultra-low-ambering cycloaliphatic epoxy.
   Mix Ratio: 2A:1B.
4. **Top Coat:**
   HDC 100 High Traffic Urethane (light texture):
   Available in Semi-Gloss or Satin.

GENERAL SYSTEM PERFORMANCE - SC-100

TEST TYPE		RESULT
Compressive Strength	ASTMC 695	11,000 PSI
Permeability	ASTME 96	0.059 PERMS (grains h-1 ft-2 in Hg-1)
Water Absorption	ASTMD 570	< .1%
Impact Resistance	ASTMD 2794	> 160
Adhesion Pull-Off	ASTMD-4541	+500 PSI concrete fracture
Elongation / Tensile	ASTMD 638	2500 psi
Flexibility 1/4” cylindrical mandrel	ASTMD 522I	Pass
Hardness / Shore D	ASTMD 2240	75

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. Moisture level results will determine recommended mil thickness for application.

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Simerrazzo Flooring System with Vapor Barrier

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. **Primer: Vapor Barrier Epoxy**
   - **Mixing:** Thoroughly agitate part A prior to mixing. Mix 2-parts A to 1-Part B by volume for 2-3 minutes using a slow speed jiffy mixer. Make certain that material is properly mixed. Only mix in metal buckets as left-over material can become hot and will melt a plastic bucket. After mixing, get the material out of the bucket and apply material as soon as possible to avoid issues.
   - **Application:** Immediately following mixing, pour Vapor Barrier Epoxy onto substrate in a uniform ribbon and spread evenly with a notched squeegee. Apply at a minimum of 12-mils or 130 SF/gallon. Immediately back-roll with a non-shedding roller. Use a brush or small roller to cut-in along perimeter walls or any other obstructions.
2. **Broadcast Coat: Rapid H2O EP**
   - **Mixing:** Thoroughly agitate part B prior to mixing. Mix 2-parts A to 1-Part B by volume for one minute using a slow speed jiffy mixer. After 1 minute reduce entire mix with additional gallon of water. Mix for an additional 2 minutes until fully consistent.
   - **Application:** Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a notched squeegee. Standard recommended coverage is 140 SF per gallon. Immediately back-roll with a non-shedding roller. Use a brush or small roller to cut-in along perimeter walls or any other obstructions.
   - Immediately following back-roll, broadcast flake blend to rejection.
   - Once cured, remove and store excess flake for future use. Scrape flake in 3 opposing directions and dispose of excess flake following scrape.
3. **Grout Coat(1): LevelGuard Clear EP**
   - **Mixing:** Thoroughly agitate part A prior to mixing. Mix 2-parts A to 1-Part B by volume for two-three minute using a slow speed jiffy mixer.
   - Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a notched squeegee. Standard recommended coverage is 100 SF per gallon.
   - Immediately back-roll with a non-shedding roller. Use a brush or small roller to cut-in along perimeter walls or any other obstructions.
   - Once Cured, sand entire floor with a 80-grit sanding screen or disk to smooth the surface.
4. **Grout Coat(2): LevelGuard Clear EP**
   - **Mixing:** Thoroughly agitate part A prior to mixing. Mix 2-parts A to 1-Part B by volume for two-three minute using a slow speed jiffy mixer.
   - Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a notched squeegee. Standard recommended coverage is 100 SF per gallon.
   - Immediately back-roll with a non-shedding roller. Use a brush or small roller to cut-in along perimeter walls or any other obstructions.
   - Once Cured, sand entire floor with a 100-grit sanding screen or disk to smooth the surface.
5. **Top Coat:**
   - **HDC 100 Urethane (Semi-gloss or Satin finish):**
   - **Mixing:** Mix complete kit for two minutes using a slow speed jiffy mixer. While mixing pour complete contents of HDC 100 aggregate into mix, taking care to properly suspend all aggregates.
   - **Application:** HDC 100 should be applied at about 3 mils DFT with a coverage rate of approximately 550 square feet per pigmented kit by pan rolling with a 3/8 nap roller. For proper appearance, dip the roller in the coating and lightly roll out excess in the application tray. Take care to spread the material evenly and immediately back-roll in a perpendicular fashion. Frequently agitate material in both the pan and mixing vessel during application process to keep aggregates properly suspended.

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.

RESINWERKS™
FLOOR COATING SYSTEMS

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