

SR-100

CLEAR CONCRETE COATING SYSTEM

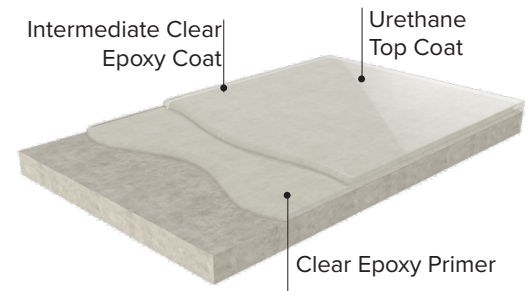
SR-100 is a contemporary clear concrete finish application consisting of a fast-setting water-based epoxy primer, self-leveling intermediate coat of clear cycloaliphatic epoxy, and a finish coat of high-wear urethane. This system provides a highly durable, contemporary finish that can be used in a variety of settings. SR-100 is available in a semi-gloss or satin finish and can be modified to accommodate varying substrate conditions, installation times, and coefficient of friction (traction) requirements. This low-VOC, green-friendly system is LEED eligible and offers an environmentally friendly alternative to solvent based coatings.

Applications

- Commercial
- Residential
- Walkways
- Retail
- Decorative

Features:

- Protective, natural looking finish
- Stain and blemish resistant
- Low odor & minimal voc
- Superior abrasion resistance & traction
- Semi-gloss or satin finish



Colors & Finishes: This system is available with a semi-gloss or satin finish.

System Components

1. **Primer:** Rapid H2O EP - 45% Solids, clear, zero VOC epoxy prime coat. Mix Ratio: 2A:1B:1H2O
2. **Intermediate Coat:** LevelGuard™ EP Clear 100% Solids cycloaliphatic water-clear epoxy. Mix Ratio: 2A:1B.
3. **Topcoat:** HDC 100™ High Traffic Urethane. HDC 100 is a heavy-duty 2-component moisture-cured urethane top-coat system that incorporates an ultra-fine aggregate to provide maximum durability. Available in semi-gloss or satin. Mix Ratio: Mix Full Kit

GENERAL SYSTEM PERFORMANCE - SR-100

TEST TYPE		RESULT
Compressive Strength	ASTMC 695	8,000 PSI
Water Absorption	ASTMD 570	< .1%
Adhesion Pull-Off	ASTMD-4541	+500 PSI concrete fracture
Elongation / Tensile	ASTMD 638	5200 psi
Flexibility 1/4" cylindrical mandrel	ASTMD 5221	Pass
Hardness / Shore D	ASTMD 2240	90
Impact Resistance	ASTMD 4060	> 160 Inch/Lb
Taber Abrasion	ASTMD 4060	16 mg loss
Coefficient of Friction	ASTMD 2047	> 0.6 / pass

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 2. 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.

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: Rapid H2O EP

- **Substitutions:** Depending on substrate conditions, primer may be substituted for Resinwerks Vapor Barrier Epoxy. See corresponding Technical Data Sheets for mixing and application instructions.
- **Mixing:** Review Rapid H2O EP Data Sheet Prior to mixing. Thoroughly agitate part A and B prior to mixing. Mix 2-parts A to 1-Part B by volume for one minute using a slow speed drill mixer. After 1-minute add 1-gallon of water and mix for a minimum of 2 additional minutes. Adding water is necessary for optimal performance.
- **Application:** : Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a 5-7 mil notched squeegee. Standard recommended coverage is 140 sq. ft. per gallon. Immediately back-roll with a nonshedding roller. Use a brush or small roller to cut-in along perimeter walls or any other obstructions.

2. Intermediate Coat: LevelGuard™ Clear EP

- **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 drill mixer.
- Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a notched squeegee. Standard recommended coverage is 100-150 sq.ft. 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.

3. Top Coat: HDC 100™ (semi-gloss or satin)

- **Mixing:** Mix complete kit for two minutes using a slow speed drill mixer. While mixing pour complete contents of HDC

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.

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 sq. ft. 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.

