# EPX-F-HD

## EPOXY DECORATIVE FLAKE BROADCAST SYSTEM

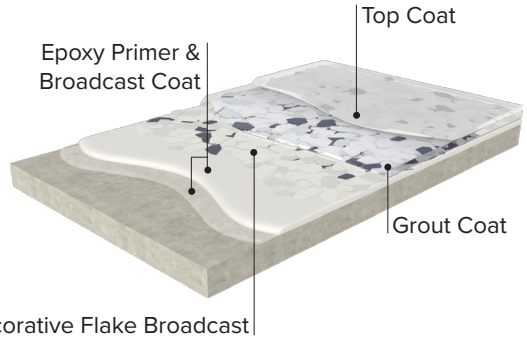
Resinwerks EPX-F-HD is a seamless decorative flake epoxy broadcast system designed for heavy-traffic settings. It incorporates a pigmented primer and broadcast coat, followed by a full decorative flake broadcast. The system is grouted with a high-solids water-clear grout coat and finished with a high-traffic urethane for added abrasion & chemical resistance. Available in a semi-gloss or satin finish with standard Resinwerks flake blends. Custom blends, including hybrid stone blends are also available.

**Applications**

- Hospitals
- Car Dealerships
- Locker rooms
- Schools
- Laboratories

**Features:**

- Excellent UV Stability
- Superior chemical & abrasion resistance
- Low Odor & VOC
- ADA compliant slip coefficient
- Suitable for high-moisture applications




| SYSTEM COMPONENTS: | |
|---|---|
| PRIMER & BROADCAST COAT OPTIONS: | |
| Vapor Barrier Epoxy | 100% solids vapor barrier epoxy |
| LevelGuard EP | 100% solids epoxy primer/ intermediate coat |
| Rapid H2O EP | 41% solids water-based primer |
| WBE 500 | 40% solids penetrating primer |
| GROUT COAT OPTIONS: | |
| LevelGuard Clear EP | 100% solids water-clear cyclo-aliphatic epoxy. |
| Kinetic HS Polyaspartic | High Solids Polyaspartic |
| TOP COAT: | |
| HDC 100 Urethane | 95% solids 3-component moisture cure urethane |

| | GENERAL SYSTEM PERFORMANCE - SC-100 | |
|---|---|---|
| TEST TYPE | | RESULT |
| Compressive Strength | ASTMC 695 | 8,000 PSI |
| Permeability (VBE ONLY) | 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 | 3800 psi |
| Flexibility 1/4" cylindrical mandrel | ASTMD 522I | Pass |
| Hardness / Shore D | ASTMD 2240 | 92 |
| Taber Abrasion | ASTMD 4060 | 16 mg loss *(HDC 100)* |
| 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 or planetary grinding is recommended to achieve a surface profile of ICRI CSP 2-3. 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 Options (select one)**

**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 recommended coverage rate 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.
- Once cured, lightly abrade surface with a black pad or fine sanding screen to remove gloss sheen and any surface contaminants. Vacuum up excess dust and wipe with solvent (xylene or acetone) to prepare for topcoat.

**--OR--**

**LevelGuard™ EP Epoxy**

- **Mixing:** Thoroughly agitate part A prior to mixing. Mix 2-part A to 1-Part B by volume for 2-3 minutes using a slow speed jiffy mixer. Make certain that material is properly mixed. After mixing, get the material out of the bucket as soon as possible to avoid issues.
- **Application:** Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a notched squeegee. Standard recommended coverage is 160 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.

**--OR--**

**Rapid H2O EP™**

- **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 required.
- **Application:** : Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a notched squeegee. Standard recommended coverage is 140 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.

**--OR--**

**WBE 500™**

- **Mixing:** Thoroughly agitate part B prior to mixing. Mix 2-parts B to 1-Part A by volume for two minute using a slow speed drill mixer.
- **Application:** : Immediately following mixing, pour onto substrate in a uniform ribbon and roll material evenly over the floor. Standard recommended coverage is 300 sq. ft. per gallon. 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: LevelGuard™ EP**

- **Mixing:** Thoroughly agitate part A prior to mixing. Mix 2-part A to 1-Part B by volume for 2-3 minutes using a slow speed jiffy mixer. Make certain that material is properly mixed. After mixing, get the material out of the bucket as soon as possible to avoid issues.
- **Application:** Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a notched squeegee. Standard recommended coverage is 160 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.
- **Broadcast:** Once material has been applied, immediately broadcast flake broadcast media to rejection.

**--OR--**

**Rapid H2O EP™**

- **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 required.

**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 notched squeegee. Standard recommended coverage is 140 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.
- **Broadcast:** Once material has been applied, immediately broadcast flake broadcast media to rejection.

3. **Grout Coat: Kinetic HS Pigmented**

- **Mixing:** Thoroughly agitate part A prior to mixing. Mix 1-part A to 1-Part B by volume for 2 minutes using a slow speed jiffy mixer. Be careful not to induce a vortex. Make certain that material is properly mixed. After mixing, material can remain in the bucket until it is ready to be applied.
- **Application:** Immediately following mixing, pour onto textured substrate in a uniform ribbon and spread evenly with a flat squeegee. Standard recommended coverage is 150 $ft^2$ 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.
- Kinetic 85 polyaspartic may be substituted depending on project characteristics.

**--OR--**

**LevelGuard EP™ Clear**

- **Mixing:** Review LevelGuard Clear 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 2-3 minutes using a slow speed drill mixer.
- **Application:** : Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a notched squeegee. Standard recommended coverage is 100$ft^2$ - 150$ft^2$ 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.
- Floor may be lightly sanded, vacuumed and tacked with solvent prior to final topcoat.

4. **Top Coat: HDC 100™ Urethane**

- **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.
- **Pigmenting:** Add pigment at a rate of 16 oz / 1-pint per full kit. Pigment should be added during mixing.
- **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.