SLABHARD® **Grind & Seal WB System**

WATERBORNE POLYURETHANE CONCRETE PROTECTION SYSTEM

SYSTEM OVERVIEW

The **SLABHARD® Grind & Seal WB System** is a high-performance, waterborne polyurethane concrete protection system engineered to enhance and preserve mechanically prepared concrete surfaces in **commercial, institutional, and light-industrial** environments. Combining exceptional durability with a clean, architectural appearance, the system delivers long-lasting protection while showcasing the natural character of the concrete substrate.

The system consists of mechanically prepared concrete, optional crack and surface defect repair using **PROFILL™ Fast Patch**, a first coat of **SLABSEAL® 200 Clear Gloss**, and a finish coat of **SLABSEAL® 200** available in Gloss, Semi-Gloss, or Matte. Together, these components create a seamless, UV-stable, abrasion-resistant finish that withstands heavy foot traffic while remaining easy to clean and maintain.

Unlike high-build resinous flooring systems, the Grind & Seal WB System is engineered to protect and enhance the existing concrete surface rather than conceal it. It provides excellent chemical and abrasion resistance with minimal film build, making it an ideal solution for facilities seeking an attractive, low-maintenance concrete floor.

Because this system enhances rather than hides the concrete substrate, natural color variation, aggregate exposure, repaired cracks, and other inherent characteristics of the concrete may remain visible and should be considered part of the finished aesthetic.

ADVANTAGES

- Enhances the natural appearance of concrete
- Waterborne, low-odor formulation
- UV-stable finish resists yellowing
- Excellent abrasion resistance
- Excellent chemical resistance
- Available in Gloss, Semi-Gloss, or Matte finishes
- Easy-to-clean, low-maintenance surface
- VOC compliant
- Suitable for direct application to properly prepared concrete
- Can be recoated to extend service life

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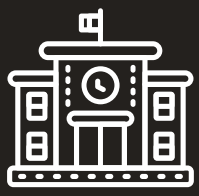
RECOMMENDED USES

- Retail and commercial spaces
- Schools and universities
- Office buildings
- Healthcare facilities
- Laboratories and research facilities
- Manufacturing facilities
- Warehouses
- Automotive showrooms
- Restaurants and food service areas
- Lobbies and public spaces
- Decorative architectural concrete floors
- Commercial, institutional, and **light-industrial** facilities requiring durable, low-maintenance concrete protection



Schools and universities, Institutional facilities

Automotive service areas

Retail and commercial spaces, Corridors and restrooms

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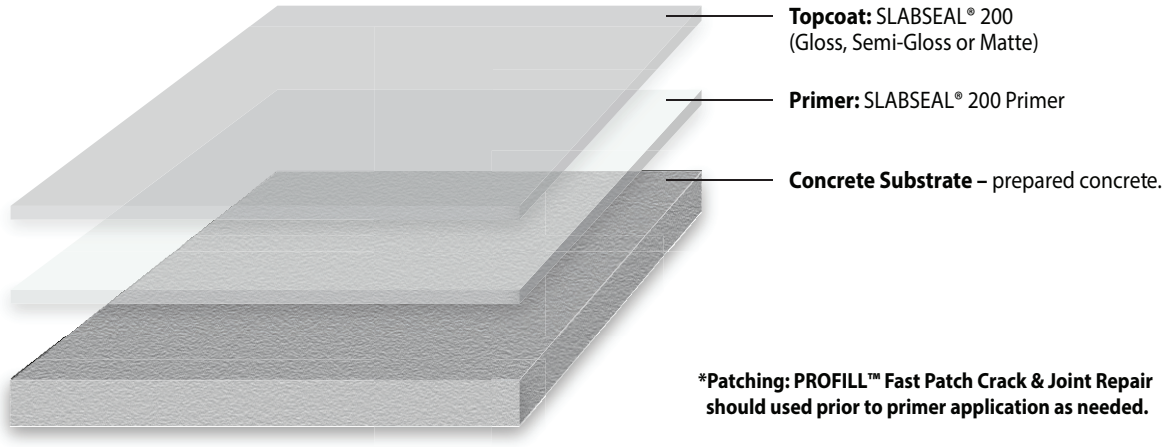
TYPICAL SYSTEM BUILD

Layer	Product	Function	Coverage / Thickness
Crack Repair (As Needed)	PROFILL™ Fast Patch	Repairs cracks, joints, and surface defects	As required
First Coat	SLABSEAL® 200 Clear Gloss	Seals and protects the concrete surface while preparing it for the finish coat	300–350 sq ft/gal
Finish Coat	SLABSEAL® 200 (Gloss, Semi-Gloss, or Matte)	Provides UV stability, abrasion resistance, chemical resistance, and desired sheen	Gloss: 300–350 sq ft/gal Semi-Gloss/Matte: 400–450 sq ft/gal
Substrate	Mechanically prepared concrete	Structural base	N/A

Note: Semi-Gloss and Matte finish coats require an initial application of **SLABSEAL® 200 Clear Gloss** before the selected finish coat is applied.

SYSTEM BUILD DIAGRAM



***Patching: PROFILL™ Fast Patch Crack & Joint Repair should used prior to primer application as needed.**

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SURFACE PREPARATION

- Concrete must be structurally sound, clean, and free of curing agents, coatings, sealers, densifiers, oils, grease, dirt, laitance, and other bond-breaking contaminants.
- Mechanically prepare the substrate in accordance with **ICRI Guideline No. 310.2R** to achieve the appropriate Concrete Surface Profile (CSP) for grind-and-seal applications.
- Repair cracks, joints, spalls, and surface defects prior to coating using **PROFILL™ Fast Patch.**
- New concrete should be properly cured and achieve a minimum compressive strength of approximately **4,000 psi.**
- Evaluate moisture conditions prior to installation and ensure the substrate meets the published limitations for **SLABSEAL® 200.**
- Because this system enhances rather than conceals the substrate, variations in color, texture, aggregate exposure, repairs, and other inherent concrete characteristics may remain visible and are considered part of the finished aesthetic.

APPLICATION GUIDELINES

Crack Repair: PROFILL™ Fast Patch

- Remove loose and unsound concrete or masonry from cracks, joints, and repair areas.
- Clean repair areas using oil-free compressed air.
- Pre-mix Components A and B separately.
- Mix **PROFILL™ Fast Patch** at a **1:1 ratio by volume**.
- For wider repairs, extend material with aggregate at approximately a **1:1 liquid-to-aggregate ratio**.
- Place material into cracks, joints, and repair areas.
- Allow material to cure approximately **15-30 minutes**.
- Grind repaired areas flush with the surrounding concrete surface, typically within **30 minutes** after placement.

Primer: SLABSEAL® 200 Clear Gloss

- Verify the substrate is properly prepared and free of contaminants.
- Maintain ambient and substrate temperatures between **60°F and 90°F** during installation.
- Maintain relative humidity below **85%**.
- Pre-mix Components A and B separately.
- Mix material at a **3:1 ratio by volume**.
- Mix thoroughly using a low-speed drill and Jiffy-style mixing paddle for approximately **2 minutes**.
- Apply evenly using approved roller or squeegee application methods.
- Apply at **300–350 sq. ft./gal** (approximately **4.6–5.3 mils WFT)**.
- Back-roll and cross-roll to ensure uniform coverage.
- Maintain a continuous wet edge during application.
- Allow to cure in accordance with the product data sheet before applying the finish coat.

APPLICATION GUIDELINES (Cont.)

Topcoat: SLABSEAL® 200 (Gloss, Semi-Gloss, or Matte)

- Verify the primer coat has cured sufficiently for recoat.
- Pre-mix Components A and B separately.
- Mix material at a **3:1 ratio by volume**.
- Mix thoroughly using a low-speed drill and Jiffy-style mixing paddle for approximately **2 minutes**.
- Apply evenly using approved roller or squeegee application methods.
- **Gloss Finish:** Apply at **300–350 sq. ft./gal**.
- **Semi-Gloss or Matte Finish:** Apply at **400–450 sq. ft./gal**.
- Back-roll and cross-roll to ensure consistent film thickness and appearance.
- Maintain a continuous wet edge during installation.
- Allow a minimum of **24 hours** before light foot traffic.
- Allow approximately **7–14 days** for full mechanical and chemical cure.

Note: Semi-Gloss and Matte finishes require an initial coat of **SLABSEAL® 200 Clear Gloss** before application of the selected finish coat.

SYSTEM OPTIONS

Finish Options

- Clear Gloss
- Clear Semi-Gloss
- Clear Matte

Aggregate Exposure Options

- Cream Finish
- Salt & Pepper Finish
- Medium Aggregate Exposure
- Full Aggregate Exposure

Aggregate exposure is determined by the grinding process and existing concrete substrate conditions and will vary from project to project

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MAINTENANCE

Inspect the installed floor regularly and repair damaged areas as required. Maintain the surface through routine cleaning using neutral-pH cleaners and periodic maintenance to preserve appearance and long-term performance. Spot cleaning and localized repairs should be completed as necessary to maximize system service life.

TECHNICAL SUPPORT

For questions regarding substrate preparation, installation procedures, or project-specific recommendations, contact an authorized **SLABHARD®** dealer or technical representative.

LIMITED WARRANTY

Star Step Alta Coatings LLC warrants **SLABHARD®** products to be free from manufacturing defects and to meet published physical properties. Seller's sole responsibility shall be to replace that portion of the product proven defective. No other warranties, express or implied, including merchantability or fitness for a particular purpose, are made. Star Step Alta Coatings LLC is not responsible for consequential damages or improper application. For complete warranty terms, consult the current **SLABHARD® Product Warranty Statement.

For Industrial Use Only.**

Keep containers tightly closed and out of reach of children.

Refer to the individual **Product Data Sheets** and **Safety Data Sheets** for additional details prior to installation.