



# Surface-Shell™ HP APPLICATION GUIDE

## POLYURETHANE MODIFIED CONCRETE OVERLAY BROADCAST FLOOR RESURFACING SYSTEM

### HOW TO APPLY

**SEAL-KRETE Surface-Shell Systems** should be installed by trained contractors.

### SURFACE PREP

1. Floors must be structurally sound and properly cured. Test floor for vapor drive in accordance with ASTM D 4263.
2. Repair concrete as necessary.
3. Mechanical surface profiling is the method of surface penetration for both new and existing floors. Mechanically profile the floor to a minimum CSP 4–5 as described by the International Concrete Repair Institute.
4. Apply a 10 by 10 ft. test in an inconspicuous area that meets the owner's expectations for appearance, slip resistance, and performance.

### APPLICATION

1. Install SEAL-KRETE Surface-Shell Cove Base, as required. Refer to SEAL-KRETE Surface Shell Cove Base application guide.
2. Mix part A and B in a clean 5 gallon pail, then add 1 lb of colorant while using a mechanical mixer and sift in Part C (49.9 lb aggregate). The materials are supplied in pre-measured containers.
3. If temperature is below 60°F, add the Part E once the Part A and Part B have been mixed together. Mix for 1 minute then add the Part F. Sift in the Part C and then add the color pack.
4. Immediately spread mixed material onto the floor, at 3/16–1/4" (6.35 mm–9.525 mm) using a screed box, rounded trowel and/or gauge rake. Back roll with a loop roller to remove trowel marks then back roll with a 7/16" spike roller to burst any air entrained during mixing. Immediately broadcast the specified aggregate beyond the point of rejection or .5 lb./sq ft
5. Allow a minimum of 8 hours at 77°F (25°C) for the SEAL-KRETE Surface-Shell to cure, then sweep, stone, and vacuum excess aggregate to achieve the desired profile.
6. Apply finish clear or pigmented coat of SEAL-KRETE Epoxy-Shell 1000 or Poly-Shell 7000 to lock in the aggregate and obtain the desired profile. The total system thickness should range from 1/4–3/8" (6.35 mm–9.525 mm) depending on the job requirements.

### DRYING TIME

The floor can be returned to full service after 24 hours at 70°F (21°C) following the lock-coat or finish coat application. Do not expose SEAL-KRETE Surface-Shell HP and HP/Q to any chemicals until fully cured (12 hours at 70°F [21°C]). In colder climates with temperatures below 50°F (10°C), it may take as long as 48 hours to reach full operational strength. Allow 7 days for full chemical cure of lock and finish coats.

### MAINTENANCE

Regular cleaning and maintenance will prolong the life of all polymer flooring systems, enhance their appearance, and reduce any tendency to retain dirt. SEAL-KRETE Surface-Shell will withstand high pressure or hot water wash-downs (2,500 psi at 180°F [82°C]).

### FOR BEST PERFORMANCE

- Use an effective moisture barrier for substrates on or below grade; if not present, consult your SEAL-KRETE representative for options.
- Substrates must be structurally sound, clean, dry, and free of any foreign matter that could inhibit adhesion.
- Do not apply at temperatures below 50°F (10°C) or above 85°F (29°C) or if the relative humidity is above 85%.
- Do not apply directly to asphalt, or bitumen substrates, glazed tile or nonporous brick and tile, magnesite, copper, aluminum, and existing coatings. For optimal performance, apply directly to concrete. Consult with your SEAL-KRETE representative for advice.
- SEAL-KRETE Surface-Shell HP and HP/Q are designed for a two-step application. Variations in thickness will affect the system's thermal and impact resistance.