



Surface-Shell HP APPLICATION GUIDE

SURFACE PREP

All surface preparation should be performed in accordance with ICRI CSP Standard 4-5.

MIXING AND APPLICATION INSTRUCTIONS

MIXING: Mix SEAL-KRETE Surface-Shell HP parts A and B in a clean, 5-gallon pail, using a mechanical drill at medium speed. Next, while agitating, add 1 lb. of colorant. Stir an additional 1 minute until color is uniform. Sift part C (55 lb. aggregate) into vortex over 2 minutes. Scrape sides of pail to ensure no dry lumps. Do not let the mixed material set in the mixing pail or other container after mixing.

Pour the mixed material immediately onto the concrete floor and spread out to the correct thickness using a gage rake set to the correct thickness. This should be completed as quickly as possible ensuring an even join between mixes. Spike roller is recommended to release any air trapped during mixing.

Some troweling may be required to remove rake marks left at the edges.

A spike roller can be used to release any entrapped air bubbles. The spiked roller should not be pushed back in to the previous mix further than 6-8'. To ensure an even finish without roller tracks or rake marks, the troweling and spike rolling must be completed before the mix is more than 10-12 minutes old.

Colored Quartz and Sand Broadcast

- (a) The quartz or sand aggregate is broadcast onto the surface of the wet SEAL-KRETE Surface-Shell HP by mechanical means such as an aggregate blower. If hand broadcasting is done, care must be taken to ensure an even scattering is produced. Always broadcast in rain fashion. Broadcasting must take place between 5 and 10 minutes of the material being mixed and applied.
- (b) The time window at which the SEAL-KRETE Surface-Shell HP is broadcast is extremely critical:
 - Too early, and the surface will become uneven, or lumpy.
 - Too late, and the aggregate will not penetrate into the Currettes surface sufficiently.
 - Consultation with the owner/end user is highly recommended to ensure the correct, and owner accepted, degree of slip resistance verses ease of cleaning. Obtain approval of the owner/end user for the texture and slip resistance properties via a job-site 100 sq. ft. mock-up sample.
- (c) The broadcast should be started approximately when three mixes have been applied, and the same aggregate/SEAL-KRETE Surface-Shell HP gap maintained as the application proceeds. This is at 70°F (20°C), warmer temperatures will dictate two mixes, and cooler temperatures will dictate four mixes.
- (d) Continue to broadcast the aggregate until an excess is achieved on the surface, i.e. saturation. It has been found necessary that a level of aggregate approximately equal to .5 lbs./sq. ft. is required to completely avoid bald spots.
- (e) After an overnight cure, the excess aggregate is removed by vacuum cleaning equipment.

Lock Coat

COVERAGE

- SEAL-KRETE Epoxy-Shell 1000 Lock-coat 150 sq. ft. /gal

PACKAGING

PRODUCT	VOLUME	MIX RATIO
SEAL-KRETE Epoxy-Shell 1000 Part A	1 or 5 gal pails	2
SEAL-KRETE Epoxy-Shell 1000 Part B	1 or 5 gal pails	1

APPLICATION

- Epoxy-Shell 1000 is a two component, solvent-free, chemical-resistant, epoxy designed to provide a tough clear coating to SEAL-KRETE Surface Shell HP.
- One coat is adequate for most situations; however two coats may be applied if a smoother less slip resistant, less aggressive surface finish texture is required.
- Do not apply when atmospheric condensation is occurring or is likely to occur before full cure is attained, i.e., when the ambient dew point is reached, or when the air or surface temperature is within 5°F of the dew point temperature.
- Premix Epoxy-Shell 1000 Part A and B separately prior to combining by using a variable speed drill motor and a Jiffy® type mixer at a slow speed for three minutes. Mix only the amount of material that can be used within the materials working time.
- Apply the lock coat with a spring steel trowel or a squeegee and back roll with a short nap epoxy resistant roller at approximately 150 sq. ft./gal to produce a slip resistant surface. The texture can vary according to the amount of lock coat applied. Allow to cure for 12 hours.
- SEAL-KRETE Surface-Shell HP can be opened to foot traffic after 24 hours based upon the curing of the lock coat. Under cool conditions, <60°F. Wait 36 hours for full traffic use.

Optional Finish Coat to improve chemical and or abrasion resistance

- Poly-Shell 7000 Gloss or Satin is recommended.

