

The Look of Polished Concrete with
**OVER 50% REDUCTION
IN LABOR COSTS**



Citadel Polished Concrete System

For those who want a polished concrete look without having to spend the countless hours of grinding, along with having to apply densifiers, then only to have to continue to grind and polish, we have a solution! Working with polishing contractors, we have developed a system that eliminates the extensive grinding process along with the need to apply densifiers and stain guard products. The finished floor is 100% UV stable, low maintenance, chemical and stain resistant, non-porous and won't have to be waxed or re-finished, *all for a fraction of the time and cost of traditional polished concrete.*

System Characteristics:

- ▶ **The FASTEST, EASIEST and polished concrete system on the market.** (*Return to service in 24 hrs.*)
- ▶ 100% UV stable
- ▶ Easy to maintain, No waxing or upkeep needed!
- ▶ **A FRACTION OF THE TIME AND COST OF TRADITIONAL POLISHED CONCRETE**



CITADEL®
FLOOR FINISHING SYSTEMS



Citadel Semi-Polished System

Step 1: Depending on the hardness of the concrete, grind with 30-50 grit metal bonds to expose aggregate to desired look.

Step 2: Grind with 100 Grit metal bond diamond, to remove scratches from previous step.

***Option:** *At this point if the substrate is porous, a grout coat would be applied.*

Step 3: Polish with 120 grit resin bond diamonds to remove final scratches. This will be all the grinding you need to do. (Grinding up to 400 grit can be done if a certain level of concrete hardness is required, this will not change the look of the finished system) Adhesion tests have been done up to a 400 grit resin bond without adhesion failure. Citadel does not recommend polishing any higher than the 400 grit resin bond level, and most applications will not require more than the 120 grit level.

Step 4: Apply 2-3 coats of Polyurea-1 HD, with or without max UDP loading depending on gloss level desired. Max UDP loading is 3lbs per gallon. Initial coat of HD is recommended full loading of UDP, subsequent coats can be less loading, depending on desired gloss level. Commercial applications will require 3 coats of HD due to heavy use environment.

****After 24 hours of last HD topcoat, return to full service**

By using the Citadel Polishing system you are eliminating the need to densify the concrete, polish above the 120 grit resin bond level, and the need to continue polishing with numerous resin bonds from 200 all the way up to 3000 grit resin bonds.

Typical Polishing Process

- Unprocessed concrete
- Grind with 30,70,120, grit metal bonds
- 50, 100, 200,400 grit resin bonds
- Application of a Densifier
- Continue Honing with 400 grit resin
- Polishing with 800,1500,3000 grit resin
- Complete with burnishing pad
- Stain guard sealer application

CFFS Polyurea-1 HD™ is a single component, UV-stable, Aliphatic Polyurea that has the best chemical and abrasion resistance available on the market today. Due to its unique chemical make-up and manufacturing process, this coating provides exceptional protection while offering a virtually unlimited pot life and crystal clear finish. It is resistant to staining from a wide variety of chemicals and caustic materials. Low odor and minimal VOC content allow for interior applications on projects requiring high gloss, chemical and abrasion resistant finishes. The single component technology in Polyurea-1 HD makes it very user friendly and produces unmatched performance characteristics.



Contact us for more information, (866) 765-4310

www.citadelfloors.com