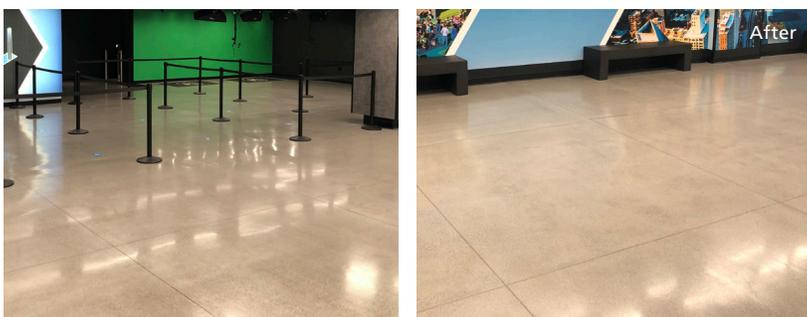




PROJECT PROFILE

WILLIS TOWER REDEVELOPMENT

EUCLID CHEMICAL



PROJECT DATA

Location – Chicago, IL

Application – Self-Consolidating Concrete Overlay and Polished Overlay

Architect/Engineer – Skidmore, Owings & Merrill

General Contractor – Clark Construction

Total Area – 37,000 ft² (3,400 m²) (EucoRepair SCC)
24,000 ft² (2,200m²) (Level Top PC-AGG)

PRODUCTS FEATURED

EUCOFLOOR™ EPOXY PRIMER

LEVEL TOP PC-AGG - Steel Gray

EUCOSIL™

ULTRAGUARD™

EUCOREPAIR™ SCC

EUCOWELD™ 2.0

EUCOBAR™

SUPER DIAMOND CLEAR™ VOX

QWIKJOINT™ UVR

SCOPE OF PROJECT

- Restoration of damaged flooring with self-consolidating concrete
- Application of Self-Leveling Overlay

PROJECT SUMMARY

Chicago's iconic Willis Tower has undergone a grand renovation of the interior main and lower floors, promoting one of the city's biggest tourist attractions, the Sky Deck. Unfortunately, halfway through construction, a catastrophic flood occurred to the lower three levels of the building, damaging a recently-added 2 ½ in (0.98 cm) concrete topping. Removal and replacement of the topping with normal concrete would cause major delays, so it was decided that it would be removed and replaced with Euclid Chemical's EUCOREPAIR SCC. By using this self-consolidating concrete repair mortar, which is micro-fiber-modified with a shrinkage-compensating polymer, the finished flooring system could be placed after 3 days of curing, speeding up the project. Over 1,200,000 lb (54,400 kg) of EUCOREPAIR SCC was delivered in 3,300 lb super sacks, to cover 37,000 ft² (3,400 m²) of Lower Level 2. EUCOWELD 2.0 primer was used as the bonding agent, EUCOBAR was used as an evaporation retarder, and SUPER DIAMOND CLEAR VOX was to control the curing process.

Euclid Chemical's LEVEL TOP PC-AGG in Steel Gray was chosen for its look, cleanability, fiber-reinforcement, and durability to withstand the building's 30,000 expected daily visitors. The cementitious overlayment was applied over a bonding layer of EUCOFLOOR EPOXY PRIMER with a full broadcast of silica sand. Overall 24,000 ft² (2,200 m²) of Level Top PC-AGG was placed in 5 phases over a 3-week period. Prior to the grinding process, the LEVEL TOP PC-AGG was saw-cut in a 7.5 ft x 7.5 ft (2.3 m x 2.3 m) pattern and Euclid Chemical's QWIKJOINT UVR, a semi-rigid, fast setting, UV-resistant polyurea joint compound was installed. After grinding to a 200 grit, the LEVEL TOP PC-AGG was densified with EUCOSIL, polished to a 1,500 grit, and burnished with ULTRAGUARD. Euclid Chemical was proud to be a partner on this iconic project with SOM, Clark Construction, and Barrier Corporation.