



SOUTHBROOK CHRISTIAN CHURCH

Project Type:

Religious Facility (Church)

Application:

Polishable concrete overlay

Location:

Miamisburg, OH

Project Dates:

Feb 2 – July 31, 2018

Project Size:

20,000 sq. ft.

Project Owner:

SouthBrook Christian Church

Contractor:

Browning Chapman LLC

Products:

Rapid Set® TRU® Self-Leveling Gray,
TRU® Self-Leveling Natural, TXP™ FAST Epoxy Primer,
TRU® Self-Leveling Spiked Roller

Founded in 1986, SouthBrook Christian Church (formerly known as Centerville Christian Church) has been growing ever since—from a handful of people gathering together to now serving more than 3,000. To support its growing congregation, the church undertook an expansion and renovation project that includes adding a chapel as well as adding a second campus.

As part of the project, the flooring contractor was tasked with replacing the tile flooring at the main entrance and in the hallways and coffee area with a polishable concrete overlay for a high-sheen, salt-and-pepper finish.

Work included removing the tile via scraper machine and grinding to achieve an ICRI CSP 3 profile. The contractor then applied TXP™ FAST to prevent pinholes and ensure a strong adhesive grip between the toppings and substrate.

The contractor used Hippo Mixers to blend both the TRU® Self-Leveling Natural and TRU® Self-Leveling Gray mixes with 30 pounds of fine aggregate. It was the first trial run with TRU® SP aggregates and TRU Gray. To achieve the look desired by the owner, the contractor also added integral color to the TRU mix. (No color was added to TRU Gray, which dries to a concrete gray color.) The toppings were applied by gauge rake at 3/8-inch thickness. The contractor then used a TRU Self-Leveling Spiked Roller to release any entrapped air and provide a smooth, level finish.

The grinding and polishing process began with the contractor lightly grinding the surface at 100 grit to expose the fine stone and sand just beneath it, and then polishing up to a 1,500-grit finish.