

Concrete Stone and Tile Project

Growing in an expanding market.

With an expanding market and a tapped-out production facility in New Jersey, the 30 year old Concrete Stone & Tile, a manufacturer of interlocking paving stones and Versa-Lok retaining wall systems, had no choice but to expand. So operations manager Bill McGuire, a longtime veteran of the industry, knew just who to turn to for help setting up the new Montgomery, NY plant.



Project Highlights

- Concrete metering belts hold up to three different concrete color mixes for “color mix” production
- PCS can be set up with unlimited product codes, including different “color mix” sequences for repeatable color mix production
- Unattended PCS control batches the appropriate color mix as the concrete is demanded by the paver machine
- Batch water controlled automatically using microwave technology—consistent w/c ratio and product color & texture
- Large 600 ton storage capacity allows plant to operate double shifts without deliveries - important in winter conditions
- Skip hoist has anti-free-fall device for maximum safety/reliability
- Consistent product quality due to moisture compensation and microwave water metering capabilities and admixture scale
- Automatic color metering system allows for custom colors all from three primary colors
- Plant designed for easy future extension
- Automatic mixer cleaning system with intermittent cleaning cycle allows extended production without cleaning & minimum cleanup time at the end of the day



WE ADD PROFITABILITY TO THE MIX.

Concrete Stone and Tile Specs

MobilMat MO80 - 5 - PCS

COM 70-3 pigment metering system

HPGM 2250 planetary mixers with 2 CuYd output

Three mixer discharge gates

Three concrete holding hoppers with metering belts for “color mix” production

HYDROMAT microwave probe mounted in mixer floor for automatic water metering

Hydrotester moisture probes in aggregate bins

600 ton storage capacity in aggregate bins

Automatic mixer cleaning system

PCS automatic control system

Weight based AC liquid admixture scale

Traveling aggregate weigh batcher

One stop shopping has never been easier.



McGuire chose a combination of ACT systems for the new facility, including the Wiggert MobilMat MO80 - 5 - PCS with a high intensity planetary countercurrent mixer, and a fully automatic Würschum COM 70-3 pigment metering system.

ACT's PCS Control is a system that's second to none. In addition to batch records, it delivers reports on production, inventory, diagnostics, maintenance, and costs. And, the automatic "color mix" feature allows for a far more diverse spectrum of colors that are easily duplicated time after time. Says McGuire, "Architects and landscape architects now have a tremendous amount of versatility to color the whole project."

In addition to the efficiencies that ACT brings to his new plant, McGuire also likes them for their "one stop shopping" convenience. "ACT has worked very diligently to supply somebody like me with the whole enchilada," he said. That's why when Concrete Stone & Tile is ready to open the next plant, he knows who he's going to call.

