



COSTCO WHOLESALE IN TAIWAN

Project Type:

Retail (Big-Box Store)

Application:

Polishable concrete overlay

Location:

Beitou (Taipei suburb), Taiwan

Project Dates:

Dec 2015 – March 2016

Project Size:

140,000 sq. ft.

Project Owner:

Costco

Contractor:

HTI Polymer

Products:

Rapid Set TRU® Self-Leveling,
TXP™ Fast Epoxy Primer

The flooring contractor had to work around several other subcontractors, within a three-month span, to install a ½-inch polishable concrete topping over the entire floor. The crew arrived to find the substrate's surface profile was greater than the recommended level. They had to first minimize the profile and remove all microfracturing caused by overly aggressive equipment. They also adjusted the primer thickness from the standard 12 mils to 24, to properly coat the profiled substrate. TRU was applied at about 3,000 square feet per hour, with two crews working back-to-back 12-hour shifts.

There were multiple contractors on the project (one for placement, three for polishing) and two different grinder manufacturers with various tooling. This required constant collaboration. For example, to speed the concrete polishing process, the placement contractor had to dial back on the amount of water used in the mix, using the CTS Cement flow kit (field slump test) to determine the optimal amount of water.

To keep the project on schedule, the three polishing contractors ran five grinders at once. Since each had their own machines, they worked together to find a process that provided the most consistent finish. The solution involved using the same brand tooling on the various grinder equipment.