



## DESCENTE INNOVATION STUDIO COMPLEX IN SOUTH KOREA

**Location:**

South Korea

**Project size:**

40,000 square feet

**Owner:**

Descente Korea Ltd

**Contractor:**

CJ E&C

**Project Date:**

June 1 through Oct. 1, 2018

**Products:**

Rapid Set® Skim Coat, TRU® Self-Leveling

In October 2018, sportswear company Descente Korea Ltd. opened a research and development center in South Korea with plans to launch a new brand of running shoes in time for the 2020 Tokyo Olympics and Paralympics. The expansive Descente Innovation Studio Complex includes a design studio and research, material and product labs along with a 400-meter running track, a futsal pitch and a basketball court to test the performance of athletic shoes.

The project owner wanted the building's walls and floors to look like exposed concrete. Contractor CJ E&C of Seoul, South Korea, was tasked with installing 40,000 square feet of polished concrete overlay in the entrance and lobby, which includes a corridor, circular staircase and stairway. The contractor used CTS Cement's Rapid Set® Skim Coat and TRU® Self-Leveling polishable topping due to the products' quick cure times and the ability to achieve high luster and outstanding clarity with TRU.

Skim Coat is a smooth, sand-free, hydraulic cement-based material that is used as an underlayment to level and smooth cement or concrete substrates. For this project, the contractor blended the TRU Self-Leveling topping to create a smooth surface. Gray pigment was added to match the flooring to the walls.

Although the facility was new construction, it was built on reclaimed land (the area was originally a mudflat near the sea), which resulted in several cracks in the substrate. The contractor addressed the cracks

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by first sawcutting them and then filling them with a repair material. Next, the topping was applied at 3/8 inch by gauge rake and finished with a spiked roller to release any trapped air.

The crew was able to grind and polish 24 hours after the overlay was placed, starting with 60-grit metal-bonded diamond abrasives and moving up to 30- and 50-grit ceramic abrasives for honing and then to 50-, 100- and 200-grit resin abrasives before applying a densifier. The crew then polished to 800 grit. To protect the surface, they applied a guard and penetrating sealer.

For the vertical portions of the stairway and spiral staircase, the contractor built forms and filled them with TRU. This helped produce a seamless transition between the flooring and staircases, in both color and texture. Work took place June 1 through Oct. 1, 2018. The customer was very satisfied with the results.

CTS Cement Manufacturing Corporation manufactures Rapid Set professional-grade cement products for concrete repairs and new construction projects. Contractors, owners, engineers and architects choose Rapid Set to eliminate problems they have with other concrete repair materials, to save time and money, when superior durability is required and results need to be aesthetically pleasing. For more information about CTS Cement and Rapid Set, please visit [www.CTScement.com](http://www.CTScement.com).

## ABOUT CTS CEMENT

