Ball Mill Room Concrete Floor Rebuild

PROBLEM
A magnesium plant in N. Michigan received a letter from KTA Engineering out of Pittsburgh, had performed some asset integrity testing recommending they repair metal or concrete structures on their Ball Mill Room floor and recommended 3 manufacturers, one of which was Resimac. The project needed to be completed within a 72-hour window.

SUBSTRATE
Concrete

PRODUCTS USED
Resichem 503 SPEP
Resichem 576 Quartz Screed

SOLUTION
Unconventional Solutions, Inc. was selected to supply the product, as well as having two of their certified AMPP inspectors on site to assist the contractor in assuring hold points (surface preparation, proper mixing & overcoat windows) were adhered to.

Surface preparation began with chiseling and removing the loose concrete followed by water blasting the pit. Turbo heaters were then used to accelerate drying the surface.

Once dry, they primed the area with Resichem 503 SPEP. Next the contractors took 50 lbs. of clean DRY silica sand, 50 lbs. of irregular shaped pea gravel and one 4L of Resichem 503 SPEP to make a bulk fill mixture to line the pit. When one side of the pit was still tacky, another team followed behind applying approx. a ¼" of Resichem 576 Quartz Screed. Turbo heaters were also used during the completion of the project to excel cure times.

The plant was up and running the next morning and no longer worry about future trips, slips and falls.