

Case Study

FLORIDA LOTTERY: WATERPROOFING THE MAIN OFFICE

Stable Soils



The Poly Grout Professionals

Waterproofing should not be a gamble

Imagine what would happen if the Florida Lottery failed to pull the daily numbers! Obviously, the ticket buying public would be outraged and the future of the Lottery would be in jeopardy! That's exactly why they chose Stable Soils Worldwide to perform the very delicate task of waterproofing their below-grade floors at their headquarters in Tallahassee, Florida.

Definitely not a job for novices!

This building, constructed 27 years ago, is approximately 200'x250' comprising 5 stories. The building site is set in a hilly part of town with 2 floors (including the live broadcast studio) below grade. The building is tilt-wall constructed, concrete panels experiencing severe panel joint failures...both horizontal and vertical, allowing water intrusion nearly everywhere. And to top it all, it is set in very wet, clayey sand...a VERY difficult repair situation to begin with. Now couple these factors with the amount of utilities, fiber optic runs and cables that have been added since the original construction and people coming and going from 6:00 a.m. to 1:00 a.m. Remember that they have multiple drawings daily with the last live broadcast at 11:00 p.m. each day!

How we did it...

Working with MJD Construction, Stuart, FL and Mathers Engineering, Stuart, FL, we devised a plan to curtain grout the entire below grade floors using our specialty chemical grouts. Our first challenge was the west wall that contains the ever-critical live drawing studio and it's required utilities! Due to the excessive moisture and because the parking area sloped toward the building creating massive rainfall amounts to flow against the building, very special hydrophilic grouts were used. Because the footer was located at a depth of 32' below grade, we water-jetted our injection rods every 18" along this wall and pumped the hydrophilic resin while extracting the rods, working off of man lifts...pumping the grout mixture up to the lifts and then down through the injection rods! All while monitoring and recording product flow and pressures to present to engineering!

We then completed the rest of the building using a hydrophobic resin placed strategically and surgically at all horizontal and vertical joints, laying a "bead" of grout directly on the joints!

Thousands of gallons of Chemical Grout...several miles of injection rods...and hundreds of man-hours! Complete success!



Moisture intrusion
can be extremely
dangerous and costly!



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LEARN MORE AT:

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There are people out there that claim they can perform, but when you want the BEST, give us a call! NASA, Sikorsky Helicopter, U.S. Department of Energy (to name a few of many) know who to call when repairs are critical! Visit us on the web at StableSoils.com!

Quick, easy, non-disruptive and ready to use in a couple of hours... not days!