

PolyLevel® 250 Hydrophobic

Project: Taco Bell Drive Thru
Location: Fort Myers, FL
Date: 10/15/2016

Challenge:

A local Taco Bell had been going through extensive remodeling in preparation for its grand re-opening. Less than two weeks prior to the re-opening, differential settlement in the Drive-Thru lane of up to 3 inches was identified and needed to be repaired prior to the Grand Re-opening event.

Several options were considered to resolve the issue including concrete removal and replacement but this option was eliminated due to time constraints, expense and the mess that would be created by this effort.

Solution:

N-Square, Inc. was contacted by Taco Bell days before the restaurant was scheduled to re-open. Their inspection of the Drive-Thru resulted in a proposed 75 pounds of PolyLevel 250 Hydrophobic to rectify the differential settlement. PolyLevel is a two-part urethane that expands and cures in to a rigid foam used to fill voids, stabilize slabs and lift concrete. Once injected through small 5/8-inch drilled “ports” in a slab, a chemical reaction converts the liquid urethane components into a strong, rapidly-setting foam. In its foam state, PolyLevel is extremely light, weighing 2.5 to 6 pounds per cubic-foot (pcf). Other void-filling or lifting materials can weigh upwards of 120 pcf, adding significant stress to supporting soils which will contribute to further settlement issues. With a minimum compressive strength of 45 pounds per square inch, PolyLevel® 250 Hydrophobic provides more than enough strength to support even heavy Drive-Thru traffic.

To meet the customer’s tight time frame, N-Square, Inc. expedited their typical installation schedule and reported to the job site at 6:00 am on the Saturday of the Grand Re-opening. All impacted settlement areas were resolved and the Drive-Thru was open for breakfast at 8:00 am.

Project Summary

Installing Contractor: N-Square, Inc.
Certified PolyLevel Inspector: Chris Aliperti
Products Installed: PolyLevel 250 Hydrophobic



Taco Bell



Before



During



After