

Topping Slab Is Re-bonded Using TecBond™ Interface Permeation Process

Washington, DC - Tecvac, Inc. has re-bonded a four inch topping slab that was delaminated from the structural slab.

When the Washington Metropolitan Area Transit Authority was in the final stage of opening its Suitland Station, it discovered that the topping slab, that was soon to receive finish quarry tile, was delaminated. This posed a severe logistical problem and threatened to delay the scheduled opening. Tecvac, Inc. was summoned to offer solutions. Short of removal and replacement of the deficient topping, the only answer was Tecvac's TecBond™ Interface Permeation Process.

After hammer sounding the slabs to identify delaminated areas, WMATA selected three areas to perform testing. The TecBond™ Process was performed on the designated areas. Small holes were drilled through the topping slab to intersect the delamination zone. Moisture encountered within the delamination zone was extracted using Tecvac's HotBox™ Crack Dryer. Effluent air measuring 90% humidity was reduced to less than 7%. Vacuum force was applied to the dry zone and repair resin was introduced.

Independent core testing concluded that the vacuum process was a success. Each of the extracted cores broke well into the structural slab, which demonstrated that the composite nature of the bond line had been established.

Since the station's construction had progressed to the point where the structure was now an island, replacement of the topping would have entailed complicated scheduling and mobilizations. Some 4,500 square feet of delamination was repaired at substantial savings to the Authority.

Tecvac, Inc. is a supplier of high quality advanced technology services to the concrete, masonry and stone repair industries.

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