

# POST HOUSE APARTMENTS



**PROJECT**  
**INDUSTRY**  
**LOCATION**  
**PRODUCTS**

Post House Apartments  
Residential  
Evansville, IN, USA  
PENETRON ADMIX SB, PENETRON & PENECEMTE MORTAR

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## CASE SUMMARY

The Post House Apartments is the first ground-up residential construction completed in downtown Evansville, Indiana in over 40 years. PENETRON ADMIX SB, PENETRON, and PENECRETE MORTAR were used to waterproof both the below-grade concrete structures and the rooftop pool.

Situated only two blocks from the Ohio River in downtown Evansville, the Post House development comprises 144 luxury rental apartment units including studio, one- and two-bedroom layouts. The \$40 million project also offers underground parking, office space and ground-floor retail areas for shops or restaurants. A solar panel array on the roof helps generate electricity for residents. Further amenities include co-working spaces within the apartment building, private conference rooms, a wet bar and lounge areas, fitness center, yoga room and a bike storage area with a repair center. The outdoor public courtyard is located between the north and south residential towers and encompasses landscaped green spaces.



**Ready to roll:** With a PENETRON ADMIX-treated concrete mix the retaining walls and floor slabs of the Post House's two-floor underground parking garage are now completely waterproof.

The construction site was situated in sandy soil only two blocks from the Ohio River. This location made the groundwater situation a concern for F.A. Wilhelm, the general contractor. The original construction plans called for a traditional membrane system as a waterproofing solution, but this proved unfeasible because the foundation walls were built right up to the edge of the property line. This left no room to install the membrane behind the walls.

### No Further Maintenance Needed

After consulting with the local Penetron representative on the best waterproofing solution, Irving Materials Inc. (imi), the ready-mix supplier, added PENETRON ADMIX SB to 2,700 yd<sup>3</sup> of concrete. The treated concrete was used for the retaining walls and foundation slabs of the two-floor underground parking garage and the rooftop swimming pool. Easily mixed in during batching, PENETRON ADMIX becomes an integral part of the concrete matrix and performs consistently during the life of the concrete. No further maintenance or treatment is required.

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due to the continuous self-healing abilities of PENETRON ADMIX-treated concrete.

A combination of PENETRON, a topical crystalline waterproofing coating, and PENECEM MORTAR, a crystalline repair mortar, was used to fill and waterproof the tie-holes in the concrete walls, completing the Penetron System waterproofing treatment.

The Penetron System provided a comprehensive waterproofing solution designed to withstand the high hydrostatic water pressure encountered at the Evansville site. Even after a 5" rainstorm shortly after completion of construction, no visible sign of water ingress anywhere in the underground parking area was detected.

**“PENETRON-treated concrete was specified to ensure durable & waterproof below-grade concrete structures.”**



**Comprehensive crystalline treatment:** Penetron crystalline products waterproofed the concrete used for the building's retaining walls and foundation slabs – and the rooftop swimming pool.