PENETRON Crystalline Technology Helps Keep Marriott Hotel Dry

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EAST SETAUKET, N.Y. (PRWEB) February 25, 2019 -- The newest Marriott Hotel in Texas opened its doors to guests in January 2019. The Marriott Convention Center includes a multi-level garage treated with PENETRON ADMIX to provide permanent waterproofing protection for the concrete structures.

The new $77 million hotel, located in downtown Midland, Texas (mid-way between Fort Worth and El Paso), features 97 guestrooms on five floors. An above-grade, multi-floor garage provides on-site parking for 365 cars. The below-grade concrete retaining walls and foundation slab securing the garage structure needed a dependable waterproofing solution to ensure long-term protection from aggressive chemicals and moisture from rainstorms.

Resisting Moisture and Chemical Attack
“Exposed to the elements, parking garage structures demand a durable solution to resist moisture in the form of weather and water and chemical attacks,” notes Christopher Chen, Director of The Penetron Group. “Our local Penetron team provided valuable technical support and experience to ensure an effective mix design – and to show how Penetron crystalline technology was an ideal solution.”

Troy Vines Ready-Mix, the concrete supplier for the Marriott Convention Center, is part of Summit Materials, a building materials group of 21 companies that operate in 21 states and Canada. PENETRON ADMIX – in soluble bags – was added to the concrete mix during the batching phase. The bags dissolve quickly and completely during this phase. Adding the admixture in pre-measured soluble bags ensures correct mixing for any project and helps save time and costs, in addition to reducing the permeability of the finished concrete.

Decreased Permeability Means Increased Durability
Over 1,000 cubic yards of PENETRON ADMIX-treated concrete was used for the below-grade retaining walls and foundation slab supporting the concrete structures of the Marriott Hotel’s parking garage.

“While an optimal W/C ratio is key in achieving the desired overall concrete performance, permeability is crucial for concrete durability,” adds Christopher Chen. “PENETRON ADMIX reduces shrinkage cracking and seals micro-cracks. It also has the added benefit of self-healing hairline cracks over the service life of the structure. This results in minimal maintenance required over the lifespan of the structure.”

The Penetron Group is a leading manufacturer of specialty construction products for concrete waterproofing, concrete repairs and floor preparation systems. The Group operates through a global network, offering support to the design and construction community through its regional offices, representatives and distribution channels.

For more information on Penetron waterproofing solutions, please visit penetron(dot)com or Facebook(dot)com/ThePenetronGroup, email CRDept(at)penetron(dot)com, or contact the Corporate Relations Department at 631-941-9700.
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