

## CASE STUDY



SMART CONCRETE®

### CROWNE PLAZA HOTEL Gurgaon and New Delhi

#### BACKGROUND

Today Hotels Pvt. Ltd., a developer of both residential and commercial real estate properties, had visions of building the finest, most modern business hotel with individually controlled air conditioning and the Club Lounge, one of the largest meeting spaces in Gurgaon.

The 234-room hotel included 15 suites, a below-grade extended basement and a swimming pool. In order to achieve their goal of opening the hotel at the earliest, Today Hotels needed a complete waterproofing solution that could be easily installed and not delay the construction process; yet provide proven and permanent results.

#### SOLUTION

The architect, Rajendra Kumar Associates, had used Kryton's crystalline waterproofing products in previous projects, and decided to specify the products for Crowne Plaza Hotel. A wide range of Kryton products were used in the below-grade foundation, swimming pool, joints and external plaster. Krystol Internal Membrane™ (KIM®), a cementitious admixture, was used in all below-grade walls and the swimming pool foundation and walls. Because KIM® can be mixed into the transit mixer right at the site, it required no installation time and also reduced the risk of human error. Krystol T1®, a surface-applied slurry, was used in all the floor slabs and sunken slabs of the basement. Cold joints were treated with Krystol Baricote™, a fast-setting waterproof grout. In the external plaster of the hotel, Krystol® Mortar Admixture (KMA™) was used to protect the building from dampness accumulated during rainfall.

By using the wide range of Kryton's waterproofing products, Skyline Contractors Pvt. Ltd. was able to cut down on costs and save 8 – 10 weeks of construction time, allowing the hotel to be fully open and operational in December 2006. By adopting the KIM® admixture into several areas, no extra time or labor was required for post-construction waterproofing. Similarly, where the surface-applied Krystol T1® was used, the application time was considerably less than the installation time of a conventional waterproofing system.

DEVELOPER  
Today Hotel Pvt. Ltd

APPLICATOR  
Kryton Buildmat Co.  
Pvt. Ltd.

ARCHITECT  
Rajendra Kumar  
Associates

CONTRACTOR  
Skyline Contracts  
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