



## Private Boutique Hotel

*Ethiopia*



Completion Date  
**JANUARY 2018**

Contractor  
**UNIVERSAL CONSTRUCTION**

Products  
**CONCENTRATE, MODIFIED,  
PATCH'N PLUG**

Project Type  
**GENERAL CONSTRUCTION -  
FOUNDATIONS**

One of Ethiopia's new hotels, this privately-owned Boutique Hotel has a footprint area of 500 m<sup>2</sup>, an underground level, and ten above grade floors. The hotel began construction in January 2015; however, it was initially being built without sufficient technical supervision of the concrete placement causing concrete defects such as honeycombs in numerous locations. These defects, especially in the basement and on slabs, resulted in extensive water leakage.

To mitigate these issues, 2,200 kg of Xypex **Concentrate**, 1,700 kg of Xypex **Modified**, and 2,500 kg of Xypex **Patch'n Plug** were used. These products were applied to various concrete structures of the hotel, and, following extensive concrete repair works, all structures were completely rendered waterproof by the end of construction. The Xypex product applications were undertaken over a three-year period, in tandem with the "Master Schedule" of the overall project, and were completed in January 2018.

The basement walls and floors, the roof, terraces, elevator pits, and concrete gutters were all waterproofed with a two-coat system of Xypex **Concentrate** followed by Xypex **Modified**. Xypex **Patch'n Plug** was used for concrete repair work in previously built structures and effectively sealed cracks to stop leaking within seconds.

Xypex's unique crystalline technology works by filling the capillaries present in concrete with a non-soluble crystalline structure. This integral structure fills capillary tracks rendering the concrete waterproof. In the case of the Boutique Hotel, all structures have now been waterproofed and protected resulting in no further leakage.