



## Ramses II Statue at the Grand Egyptian Museum



### ABOUT THIS PROJECT:

**Market Segment:**  
General Construction

**Engineering Consultant:**  
Dr. Ahmed Osman

**Products Used:**  
Xypex Concentrate

**Contractor:**  
The Arab Contractors

**Location:**  
Giza, Egypt

### A PRICELESS CHALLENGE

In 2018, the Grand Egyptian Museum (GEM) in Giza undertook the relocation of the 83-ton, 3,200-year-old statue of Ramses II—a monumental piece of art and history.

The primary objective was to preserve this unique historical artifact and provide a more suitable environment for its display and appreciation.

The meticulous execution of the relocation necessitated specialized equipment, expertise, and an unwavering commitment to preventing any damage to the massive statue. Once in its new home within GEM, the statue of Ramses II was strategically placed on a concrete base situated within a water pond.



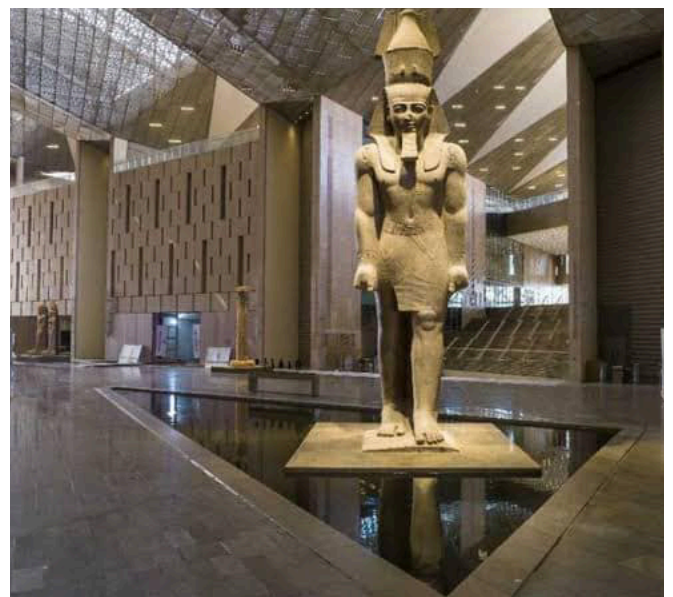
Xypex treated concrete base.

In collaboration with the Egyptian Ministry of Antiquities, the renowned engineering consultant, Dr. Ahmed Osman, and the contracting company, Arab Contractors, sought a steadfast and long-lasting waterproofing solution to protect the concrete base and safeguard the 3,200-year-old statue.

### THE BEST SOLUTION

The selected solution was Xypex Concentrate, chosen for its exceptional performance and proven track record in other iconic applications.

Xypex surface-applied waterproofing chemicals penetrate the concrete substrate, reacting with moisture to generate insoluble crystals. These crystals grow within the concrete's capillaries, pores, and cracks, effectively blocking the passage of water.



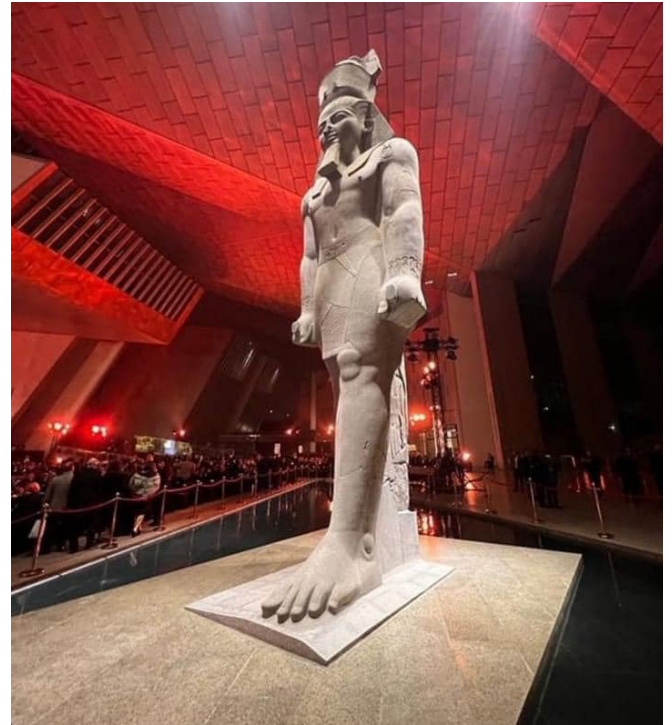
The Ramses at its new location, the Grand Egyptian Museum.

This ensures permanent waterproofing, safeguarding the concrete pedestal and the Ramses II statue from water infiltration and moisture-related damage or deterioration.

The successful completion of the waterproofing using Xypex Concentrate marks a significant milestone in the construction of the Grand Egyptian Museum (GEM). The Egyptian Ministry of Antiquities can rest assured that the concrete plinth supporting this invaluable piece of history has been permanently waterproofed and protected through the application of Xypex Concentrate.



The transportation of the statue.



The unveiling of the statue.