

Museum of Islamic Art Built with Sustainability in Mind

High performance waterproofing of the foundation protects the finest collection of Islamic art.



Project	Museum of Islamic Art
Client	Qatar Petroleum (Qatar)
Architect	I.M. Pei (U.S.A.)
Contractors	SixConstruct (Belgium) and Baytur (Turkey)
Structural Engineer	Leslie R. Robertson Associates (USA)
GCP Solution	PREPRUFE® waterproofing system

The Overview

The Project

Poised at the end of the corniche in the harbour of Doha, Qatar, the Museum of Islamic Art rises majestically from the waters of the Arabian Gulf. Designed by renowned architect I. M. Pei, the museum design includes a striking exterior that conceals one of the finest collections of Islamic art in the world.

Inspired by the Mosque of Ahmed Ibn Tulun in Cairo, it was built through combined efforts. The museum design reflects a modern interpretation of Islamic architecture and mirrors Qatar's cultural vision as a bridge between past and present, east and west.

GCP Applied Technologies brought a multi-national collaboration into this project and coached the partnership formed among an American-based architect, European- and Turkish-based contractors and local site teams.



"...The first step in a monumental effort by Qatar to transform itself into the arts and education hub of the Middle East."

The Architect's Journal, UK, 02.05.2009



The climate and corrosive salt environment of the Persian Gulf created a number of museum design project challenges.

Constructed on reclaimed land, the museum's foundation rests below the water table, subjecting the foundation to highly aggressive chloride and sulphate conditions, which can quickly deteriorate the concrete and significantly reduce the life of the structure. It also puts the artworks housed within at risk.

GCP's Blue360SM Design Advantage Team was deeply involved in the museum design project and recommended PREPRUFE[®]300R waterproofing membrane be applied under the slab to prevent water migration around the substructure.

As Blue360SM Design Advantage project, GCP also provided extensive training for site engineers and operatives on proper product application procedures.

The solution was not only well suited to the corrosive salt environment of the Persian Gulf, but also for Qatar's severe heat – often in excess of 40 °C (104 °F)—offering incomparable sustainability

The result: a continuous waterproofing system, fully-bonded to the structural concrete surrounding the substructure and creating a positive and permanent barrier to protect the works of art from the corrosive environment.

Blue360SM Design Advantage.

All your design needs in a single source.

gcpat.id | For technical information: asia.enq@gcpat.com

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Alpharetta, GA 30009, USA

PT GCP Applied Technologies Indonesia, Cikarang Industrial Estate Kav C-32, Cikarang, Bekasi 17530

This document is only current as of the last updated date stated below and is valid only for use in Indonesia. It is important that you always refer to the currently available information at the URL below to provide the most current product information at the time of use. Additional literature such as Contractor Manuals, Technical Bulletins, Detail Drawings and detailing recommendations and other relevant documents are also available on www.gcpat.id. Information found on other websites must not be relied upon, as they may not be up-to-date or applicable to the conditions in your location and we do not accept any responsibility for their content. If there are any conflicts or if you need more information, please contact GCP Customer Service.

Last Updated: 2023-08-03

gcpat.id/about/project-profiles/museum-islamic-art-built-sustainability-mind