

# Kuwait Gulf Oil Co. World HQ

## Hycrete Provides Superior Corrosion Protection for KCOG World Headquarters



### INTEGRAL ADMIXTURES DELIVER LASTING CONCRETE PROTECTION AND REDUCE LONG-TERM MAINTENANCE REQUIREMENTS

**Structure:** office

**Applications:** 250,000 cubic meters of structural concrete

**Owner:** Kuwait Gulf Oil Company

**Engineer:** Kuwait Technical Consulting Bureau

**General Contractor:** Al Hamara Kuwait

**Ready Mix Provider:** Kuwait Cement Ready Mix Company



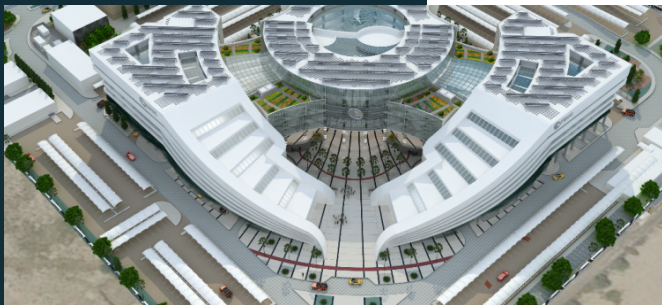
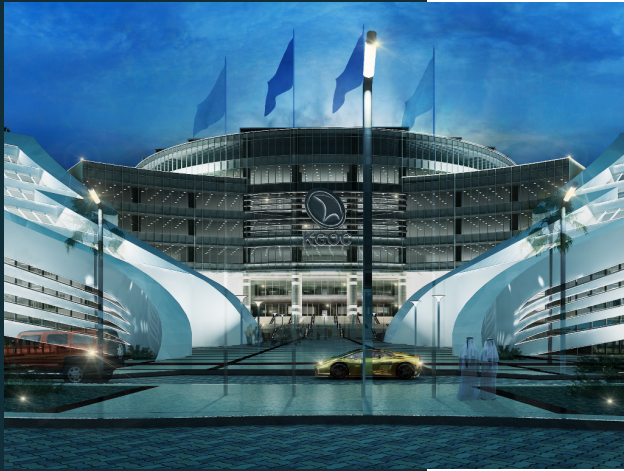
### Introduction

The new KGOC Headquarters main office building is a unique architectural edifice in Kuwait, being one of the leading Green Buildings in the country to be awarded the LEED-Gold Certificate from USGBC. The LEED-Gold certificate characterizes the new KGOC main office building with 30% less energy consumption and 60% less water consumption in addition to a working environment that helps increase employee productivity by 16%. The KGOC's new main office building is six (6) stories tall, with a total build area of approximately 100,000 m<sup>2</sup>.

### Challenge

Kuwait's extreme environment presents a severe challenge for all building materials and reinforced concrete is no exception. Extreme heat combined with high humidity from the adjacent Persian Gulf subject structurally reinforced concrete to the perfect environment to initiate corrosion. Reaching sustainability goals for the project required extending the durability of the structure and protecting it from corrosion.





## Solution

Hycrete's dual-action (lower absorption and corrosion protection) MC1000+ was specified to extend the design life of the building by protecting the concrete and reinforcement from the harsh environment.

## Result

Structural durability has been enhanced by the inclusion of Hycrete MC 1000+ protecting the building's architectural concrete design elements with a single permanent product. No exterior sealer means no long-term re-occurring maintenance costs for the owner for the life of the building.

## Additional Benefits

- One product provides moisture and corrosion protection.
- No additional labor is required.
- Disruptive maintenance and downtime avoided.
- Most sustainable best practices for sustainable construction are employed at a lower cost.

