



**DOWAKSA** CarbonWrap®

## CASE STUDY

FREEPORT-MCMORAN REFINERY  
EL PASO, TEXAS

### SIGNIFICANT SAVINGS FROM RETROFIT VS. REPLACEMENT

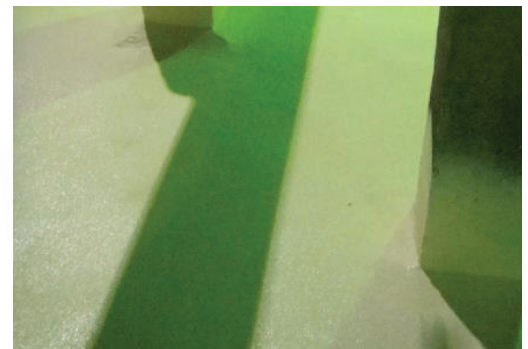
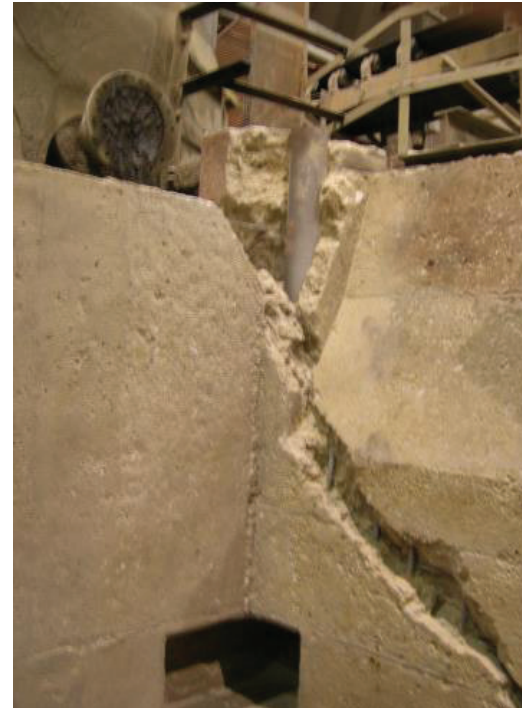
#### Problem

Freeport-McMoRan Refinery, one of the largest copper and gold mining companies in the world, was faced with having to replace both the roof and floors at their tank house. Because of the harsh chemicals used in the building and the age of the building, the roof's concrete panels and concrete floors were badly deteriorated and large cracks were visible. And the roof was deemed unsafe.

One option – to replace both the roof and the floors – was not only very expensive, it also required significant downtime, something the company could not afford to do.

#### Solution

Freeport-McMoRan used DowAksa CarbonWrap® to strengthen the concrete panels in the roof. This eliminated downtime and resulted in a roof that was actually stronger than a brand new roof. To fix the badly deteriorated concrete floors, the cracks were repaired and the floor area was coated with CarbonCoat™ to add a chemical protective coating to the entire floor, preventing future deterioration. The overall project yielded a 60% cost savings.



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