



# SIKA AT WORK

## REHABILITATION OF THE LOCSIN MONTELIBANO HOSPITAL, PHILIPPINES

STRENGTHENING: Sika® Carbodur®

BUILDING TRUST



# REHABILITATION OF THE LOCSIN MONTELIBANO MEMORIAL REGIONAL HOSPITAL, PHILIPPINES

## PROJECT DESCRIPTION

The Corazon Locsin Montelibano Memorial Regional Hospital (CLMMRH), formerly called the Occidental Negros Provincial Hospital (ONPH), was founded on March 24, 1926 with a 25-bed capacity. It is located at Lacson-Burgos Streets, Bacolod City, Negros Occidental, Philippines. It is a government controlled and owned health care facility that caters to indigent patients. It is the foremost and only medical referral in the region that is preserved, archetypical, and outmoded structure that needs to be overhauled and refitted. In May 30, 2012, the National Historical Commission of the Philippines installed the historical marker at the CLMMRH Heritage Building, declaring it a national site because of its strong American architecture and it being more than fifty years old.

## PROJECT REQUIREMENTS

The purpose of the work was to ensure that the present structure meets current building standards, particularly with regard to the mechanical capabilities of the structure and its load bearing capacity. Even when other retrofitting alternatives were possible, the solution based on Sika® Carbodur® CFRP plates was selected as the construction development did not disrupt medical operations neither manifest public nuisance. The Sika® Carbodur® system comprises lightweight materials and simple application procedures; hence less man power was necessary. The election of the Sika® Carbodur® strengthening system provided an efficient and fast alternative in comparison to other traditional strengthening solutions. CLMMRH is declared a Heritage Building. This additionally involved that the finishing or exterior works should not be evident and recognizable to the communal population.



### SIKA SOLUTIONS

Concrete Repair and Structural Strengthening of Sika products and solutions have made use of Sika® CarboDur® S512 laminates, Sikadur® 31CF, and Sikadur® 752.

Approximately 70 mm of the surface plaster and topping were stripped off from the suspended slab. The crack concrete slab was repaired through crack injections with the use of Sikadur® 752. Due to the width of the cracks, they were easily filled by gravity feed.

Epoxy adhesive was applied to the prepared surface edge in order to level the surface overlay using Sikadur® 31 CF.

Sika® CarboDur® S512 was installed to the concrete slabs to strengthen and compensate additional cracking and stresses of the structure

Finally, concrete mortar and topping was applied to overlay and protect the Sika® CarboDur® plates as well for aesthetic purposes.





**PROJECT PARTICIPANTS**

Owner: Corazon Locsin Montilibano Regional Memorial Hospital - Dept. of Health  
 Consultant: Engr. Jerry Maratas - Structural Engineer  
 Gen. Contractor: F. Gurrea Construction Inc.  
 Applicator: ACE Technical Creations Inc.  
 Sika representative: Engr. Lance Anthony B. Castanares, Sika Philippines, Inc.

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