

# Batu Kitang Module 8 Water Treatment Plant

Kuching, Malaysia (2011)

## BACKGROUND

The Batu Kitang Water Treatment Facility Complex is located in Batu Kitang in Kuching in Malaysia. The facility provides the surrounding population of roughly half a million people with an estimated 480 million litres of water per day. In recent years, seven modules at the plant have been running at full capacity and demand for fresh water in the province has been growing by five to seven per cent per year. The Kuching Water Board needed to expand their fresh water and they needed to do it quickly.

## SOLUTION

Projecting future shortages, the local Water Board elected to add to the complex by building an eighth module, which would increase the facility's fresh water producing capacity by 100 million litres per day. With timeline projected of a year and a half, speed and efficiency of construction were critical. Another important factor in construction was waterproofing as the structure would be exposed to high water pressure being constantly pumped in and out of the plant.

The team of builders needed a system that would protect the module's walls and large concrete slabs. They decided to use internal waterproofing to meet their needs. To protect against leakage, Kryton's Krystol Internal Membrane (KIM) admixture was added to the concrete being cast. The team also used the Krystol Waterstop System and Krystol T1 to keep the structure leak-free. The project was completed in May 2011.

### DEVELOPER:

Hydroicon Sdn. Bhd.

### OWNER:

Kuching Water Board

### CONSULTANT:

Jurutera Minsar Sdn. Bhd.

### READY-MIX SUPPLIER:

Cemex Sdn. Bhd.

### CONTRACTOR:

Hydro Icon

### WATERPROOFING SUB-CONTRACTOR:

Structural Repairs (EM) Sdn. Bhd.

### DISTRIBUTOR:

Structural Repairs (EM) Sdn. Bhd.

### PRODUCTS & TECHNICAL SPECIFICATIONS:

Learn more at [kryton.com](http://kryton.com)  
 Krystol Internal Membrane (KIM)<sup>®</sup>  
 Krystol Waterstop Treatment<sup>™</sup>  
 Krystol T1<sup>®</sup>



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