

# Couples Swept Away Resort

Westmoreland, Jamaica (2006)

## BACKGROUND

The 'Couples Swept Away' Resort is a 312-room luxury hotel located along Negril's pristine seven-mile beach. A popular honeymooner destination, as the Resort is tucked away in a veritable paradise. The desirable location along the Caribbean coast not only tempts tourists from all over the world, but also means that the ground level of the hotel is well below sea level, with a water table of just less than 900 mm (3 ft.)

During construction in the spring of 2005, the 1.5 m (5 ft.) below-grade foundation was waterproofed using Kryton's Krystol Internal Membrane (KIM) waterproofing admixture, along with the wall slabs. However, due to construction limitations, cold joints between the floor slab and walls were to be waterproofed after the concrete cured. Construction was completed in December of 2005 and the joints were leak-free. Unfortunately, about seven-months later, during a particularly rainy season, ground water from the high water table was leaking heavily through the cold joints. A waterproofing solution that could be easily and effectively applied to the wall-to-slab joint and that could repair from the negative side was needed.

## SOLUTION

With the difficulties at hand, the Krystol Waterstop System™ was chosen to stop the leakage and permanently waterproof all joints because of its unique ability to be applied to the negative side (from inside) of the structure against water pressure. To begin the repair process, a 1" wide chase was chipped along the length of the joints and filled with Krystol Plug™. The leakage stopped almost immediately, which allowed Krystol T1® and Krystol Baricote™ to be added. A final finishing coat of Krystol T1® & T2® were added at the end to ensure coverage around the repaired area.

Since the completion of the cold joint repairs in July 2006, there has been no trace of leakage and the joints are expected to remain dry for the lifetime of the concrete, even if the water table rises.

### OWNER/DEVELOPER

Couple Chain of Resorts

### ENGINEER:

Peter Jervis & Associates

### CONTRACTOR:

Neville L. Daley

### APPLICATOR:

Hytech Waterproofing Systems Ltd.

### DISTRIBUTOR:

Hytech Waterproofing Systems Ltd.

### PRODUCTS:

Learn more at [kryton.com](http://kryton.com)  
 Krystol Internal Membrane™ (KIM®)  
 Krystol Waterstop System™  
 Krystol T1® & T2®  
 Krystol Baricote™  
 Krystol Plug™



*Crew using Kryton's Krystol Waterstop System™.*



*Overhead view of the 'Couples Swept Away' Resort.*