SAKURA HOT SPRING HOTEL

Tam-Shui, Taiwan
May 2007

PROJECT CASESTUDY

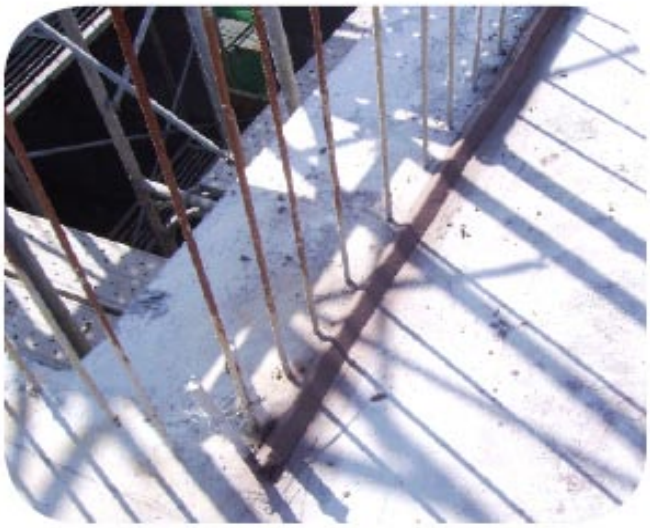
BACKGROUND

Taiwan has a sub-tropical climate with sudden rain showers frequently occurring. This constant dampness proves to be a waterproofing challenge in new construction, especially along coastal areas that are already below sea-level. Construction of the Sakura Hot Spring Hotel started in January 2007, with completion expected by October 2007. The boutique hotel will feature 78 rooms on 6 floors along Tam-Shui City's coast. The hotel owner did not want to face subsequent repair problems that traditional waterproofing methods would inevitably present. Chen Architect, who usually use fiberglass reinforced plastics (FRP) or resin-based waterproofing products, needed a permanent waterproofing solution for all walls, slabs and joints.

SOLUTION

The project required many different areas to be waterproofed, including slabs, joints and bathroom surfaces. Contractors Poplar Co., Ltd. introduced using Integral Crystalline Waterproofing for the project because it provided an entire system of waterproofing solutions that would save time and provide a permanent results.

Krystol T1™/T2™ freshly applied to bathroom surfaces.



The Krystol Waterstop System™ provides superior waterproofing protection for joints than PVC and bentonite systems. Unlike other systems, it won't shift during pours or deteriorate over time.

Kryton's Krystol Internal Membrane™ (KIM®), a cementitious waterproofing admixture, was used in the new concrete mix to waterproof all roof slabs and walls. KIM® requires no installation and is instead poured right into the concrete at the ready-mix batch plant.

Kryton's Krystol Waterstop System™ was used in all wall-to-slab joints. The waterstop system employs two levels of waterstop protection - Krystol® Waterstop Grout, a physical barrier, and Krystol® Waterstop Treatment, a crystalline chemical barrier. Unlike traditional membranes that require long labor time and deteriorate from the day that they are installed, the Krystol Waterstop System™ is fast and easy to install, and actually improves with time.

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Krystol T1™/T2™, a cementitious, surface-applied treatment was brushed onto all bathroom surfaces.

These products use Krystol™ technology waterproofing compounds, a proprietary crystalline technology that reacts chemically with concrete to form millions of needle-like hydration crystals. The crystals grow deep into the capillary pores of the concrete to block the passage of water. Later, if cracks form due to settling or shrinkage, incoming water triggers the crystallization process and additional crystals begin to grow, filling cracks and ensuring that the structure's waterproofing barrier is maintained and protected.

Freshly poured concrete using Kryton's KIM® Admixture. KIM® uses integral crystalline technology to self-seal hairline cracks over time.

LOCATION
Tam-shui City, Taipei Hsien, Taiwan

OWNER
Far East Steel Safe Manufacturing Co., Ltd.

APPLICATOR
Shi-Shing Engineering Company

ARCHITECT
Chen Architect

CONTRACTOR
Poplar Co., Ltd.

DISTRIBUTOR
Poplar Co., Ltd.