

# PROJECT PROFILE

## PROJECT NAME: Dollarton Business Park, Building C

### PROJECT BACKGROUND

Baymar Construction was looking for a solution to properly cure a concrete slab on grade during August 2012 when the weather in Vancouver is hot and sunny. Ideally they wanted one product that would give them the benefits of a properly cured slab and then be used as the bond breaker.

The concrete slab and the Tilt-Up wall panels contained fly ash. The wall panels were stack cast as well. Baymar Construction would need a product that was fully compliant with ASTM C-309 and Canada's CEPA/EC VOC (volatile organic compounds) regulations.

### STRATEGIE/CHALLENGES

Vancouver, BC weather is challenging. From October through April it rains, it mists and is cold. During the summer, it is hot and dry. The concrete slabs on grade were poured in August. The 4000 psi concrete contained 20% fly ash. The concrete floor finish was pan finished with a light steel trowel finish. A curing compound was needed that would be compatible with the bond breaker.

The Tilt-Up wall panel concrete was 4000 psi containing 30% fly ash. Panel sizes ranged from 50' tall x 30' wide weighing 135,000 pounds to 56' tall x 35' wide weighing 160,000 pounds. The first wall panels were poured on September 17, 2012 and the last wall panels were poured on November 2, 2012. The panels were stack cast and concern of osmotic effect was a factor as well.

### RESULTS/SOLUTIONS

Baymar Construction found the answer to their challenge through Vexcon's distributor Technical Sales Representative, Tony Adlkirchner with Brock White Construction Materials in Vancouver. The solution was the application of Vexcon's Certi-Vex Clean Lift.

Certi-Vex Clean Lift is the only fully compliant ASTM C-309 bond breaker and is fully compliant with Canadian CEPA/EC and all U.S. VOC regulations.

Under summer conditions when the slab on grade was poured, Certi-Vex Clean Lift provided the proper cure for the concrete. Because Certi-Vex Clean Lift is fully compliant with ASTM C-309 the concrete did not have to be flooded or have a separate acrylic curing compound applied to properly cure the slab. This allowed one product to be used as the cure and bond breaker. When applied at the appropriate time in the finishing process Baymar was able to achieve a proper, quality cure that dried quickly. The end result was a high quality-finished slab.

When it was time to cast the wall panels, it was cool and wet weather typical of Vancouver and the U.S. Northwest. Here, Certi-Vex Clean Lift provided the quick drying bond breaker that allowed for easy application and the clean easy lift needed when picking tilt-up panels. There were no stickers or degradation of the wall panels or the slab.

Darwin Construction and Baymar Construction were both very pleased with the performance of Vexcon's Certi-Vex Clean Lift. Vexcon Clean Lift is also available in a water-based version StarSeal Clean Lift. However, due to the various weather conditions and local preference, the solvent-based version, Certi-Vex Clean Lift was the product of choice.

<b>Project:</b>	Dollarton Business Park, Building C
<b>Project Type:</b>	Tilt-Up Construction, three story, mixed use
<b>Location:</b>	Vancouver, BC
<b>Owner:</b>	Avision Young
<b>General Contractor:</b>	Darwin Construction, Ltd., N. Vancouver, BC
<b>Project Superintendent:</b>	Michael Tuft
<b>Concrete Contractor:</b>	Baymer Construction, White Rock, BC
<b>Project Foreman:</b>	Michael Lundigren
<b>Total Square Footage:</b>	56,000
<b>Project Completion Date:</b>	2013
<b>Product Used:</b>	Certi-Vex Clean Lift



### ABOUT VEXCON

Founded in 1974, Vexcon Chemicals core business is the manufacture, distribution and sale of construction chemical products.

Vexcon Chemicals is an industry leader providing innovative product solutions through the development of advanced chemical technologies designed to meet today's construction demands. With our unique capability as a vertically integrated specialty chemical manufacturer we produce as starting materials water and solvent based epoxy, urethane, hydrocarbon, acrylic and silicone products. These technologies allow us to develop cost effective products that are designed to exceed market demands for consist high performing materials. We also have the ability to manufacture customized products developed to meet specific customer demands.

Vexcon produces construction materials designed to build, repair, enhance, protect, and maintain a wide variety of concrete and masonry structures.

Our products span numerous markets and product categories and are commonly used on transportation, commercial, industrial, distribution, institutional and residential projects both nationally and globally.

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