

Edmunds Aquatic and Community Centre

Burnaby, Canada (2012)

BACKGROUND

Recent population and demographic changes in the City of Burnaby along with the decommissioning of the old existing CG Brown Pool created the need for a new full service community center.

Much public consultation led the City to create a plan for an 7900 square meter (85,000 square foot) center featuring a leisure pool which would include a 'lazy river', 6-lane lap pool, youth and senior lounge, two gymnasiums and an indoor playground. The center would target for LEED Silver or higher.

SOLUTION

The City was aiming for LEED Silver which means traditional PVC based membranes would not be an option, because of their detrimental environmental effects. The construction team looked at Kryton's Krystol Internal Membrane (KIM) concrete waterproofing admixture for a solution to their waterproofing needs. The pool sits above two floors of underground public parking so leaks could not be tolerated.

Kryton confirmed through testing that the presence of Chloride would not reduce or limit the ability of the KIM admixture to self-heal hairline cracks in the concrete. KIM's ability to self-seal minor cracks and the fact that KIM has no VOCs and therefore is not detrimental to requirements to obtain LEED Silver made KIM the perfect choice for the job.

Over 9000 Kg (20,000 lb.) of the KIM admixture was added to the pool concrete. Kryton's Krystol Waterstop System was used on all cold joints in the pool and the Krystol Crack Repair System was also used to repair a few shrinkage cracks that appeared during construction.

The center will be open in early 2013.

OWNER:

City of Burnaby

ARCHITECT:

CEI Architecture Planning
Interiors

ENGINEER:

Fast & Epp

CONTRACTOR:

Smith Bros. & Wilson (B.C.) Ltd.

APPLICATOR:

Smith Bros. & Wilson (B.C.) Ltd

READY-MIX:

Lafarge

DISTRIBUTOR:

Cascade Aqua-Tech Ltd.

PRODUCTS:

Learn more at kryton.com
Krystol Internal Membrane™ (KIM®)
Krystol® Waterstop System
Krystol® Crack Repair System



Looking at the deep end of the pool. The red lines is the Krystol Waterstop Grout used to waterproof the cold joints.



Construction of the 'lazy river' with Kryton pails in the background.