

SEA LIFE Melbourne Aquarium

Yarra River, Melbourne, Australia (2000)



BACKGROUND

Underwater aquariums are some of the most craved and attended attractions the world over. From dolphins flipping about in the air, to a large Orca splashing the excited crowd, seemingly in appreciation for their attendance, people flock to the spectacle. However, there is plenty of work that goes into a venue of this nature to ensure its viability both for the safety of the patrons, but also the safety of the sealife therein.

In a tidal area of the Yarra River, the city of Melbourne required a deep excavation for the construction of an Underwater World Aquarium attraction. As can be imagined, the hydrostatic pressure from the ocean's flow was of great concern to the viability of the project. A waterproofing product that could withstand such head pressure was needed to permanently waterproof the facility, as well as make sure that the venue could remain open and avoid costly repairs along the way.

SOLUTION

Kryton's Krystol Internal Membrane (KIM) was the sole waterproofing admixture chosen as the waterproofing solution for the secant pile walls that was holding back the Yarra River. KIM is the only Permeability Resistant Admixture for Hydrostatic Conditions (PRAH) on the market, as defined by the leading expert authority in the concrete industry, the American Concrete Institute (ACI). Moreover, KIM has been subjected to more independent testing than any other concrete waterproofing solution available. All told, KIM was the best option for the SEA LIFE Melbourne Aquarium.

As of writing, the aquarium is working to required specifications with spectators enjoying the show without any interruptions due to leaks or cracks in the concrete.

OWNER:

City of Melbourne, Australia

DEVELOPER:

Construction Engineering Pty. Ltd.

ENGINEER:

Bonacci Winwood Group

READY-MIX

Secant Piles: Pronto Co.

Structures: Bora I Co.

DISTRIBUTOR:

Concrete Protection Pty. Ltd.

PRODUCTS:

Learn more at kryton.com
 Krystol Internal Membrane™
 (KIM®)



The secant pile walls were integrally waterproofed using Kryton's KIM admixture.