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We saved money by choosing a greener product; that was an unusual opportunity.



Dean Rudy Hasl, Thomas Jefferson School of Law







# Thomas Jefferson School of Law

Hycrete Contributes to LEED Gold Rating for Membrane Free Construction

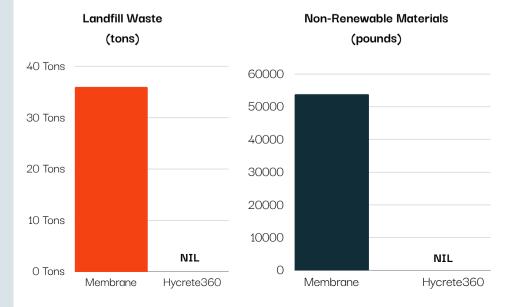
Integral Admixtures Deliver Lasting Concrete Protection and Reduce Long-term Maintenance Requirements

#### Introduction

Thomas Jefferson School of Law, located in downtown San Diego, California, is an eight-story classroom building, with ground level retail space, and three levels of underground parking. Construction is structural concrete below grade, with a podium slab at the first floor, and eight levels of concrete slab above ground.

## Challenge

Pursuing LEED Gold Certification for New Construction building, the owner desired to contain costs while still achieving a structure with superior environmental performance.









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This is simply a better method of construction.

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Bryon Chilleme, Senior Project Manager Bovis Lend-Lease

#### Solution

By selecting Hycrete's membrane-free approach to waterproof concrete construction, the school reduced the construction critical path by four weeks and saved an estimated \$187,000 on construction costs, a 32% improvement over traditional waterproofing approaches. In addition, the US Green Building Council has awarded TJSL a credit for "Membrane Free Construction Through Integral Concrete Waterproofing" (Innovation in Design (ID) Credit 1.1) for its use of Hycrete360, which includes Cradle to Cradle Certified admixture Hycrete Endure WP.

### Result

The project team was able to shave weeks off the construction schedule, saving them time and money. Hycrete360 provided a non-absorbent concrete surface with reduced maintenance over the duration of the building life span, all with a 10-year performance-based warranty.

#### **Environmental Impact**

- 1. Elimination of 36 tons of landfill debris.
- 2. Elimination of an estimated 53,844 pounds of non-renewable materials.
- 3. Elimination of an estimated 18,567 pounds of polymers.
- 4. Reduction in required onsite equipment concrete waterproofing is added at ready-mix, not site.
- 5. Elimination of excavation / backfill required for membrane installation reduces construction footprint.
- 6. Improved concrete recyclability, as future membrane removal is eliminated.

# **Economic Impact**

