



Delivering Concrete Solutions

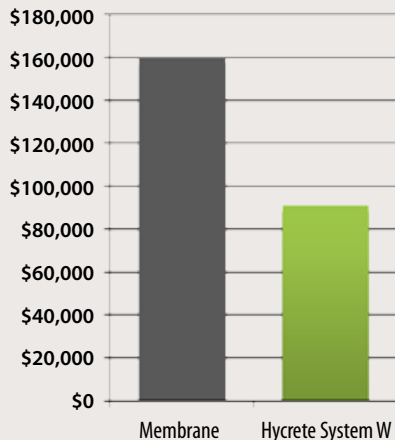


Central Village, Los Angeles, CA

“  
Hycrete System W offers the highest level of waterproofing performance and service backed by the industry’s strongest warranty. I will continue to recommend the use of Hycrete products for my customers’ most critical waterproofing needs.”

Bijan Armandpour, Owner, Bijan and Associates

Comparative Material Costs



CASE STUDY

# Central Village

Los Angeles, CA

## Hycrete Delivers Savings to Central Village

Structure:	Mixed use
Application:	<ul style="list-style-type: none"> <li>• Perimeter walls</li> <li>• Elevated deck perimeter</li> <li>• Podium decks</li> </ul>
Owner:	4D Development
General Contractor:	American Constructors
Architect:	Bijan & Associates
Engineer:	Soleymani & Associates
Concrete Contractor:	U Build
Shotcrete Contractor:	Pacific Coast Shotcrete
Ready Mix Provider:	Standard Concrete

### Introduction

Located just south of downtown Los Angeles, Central Village is a mixed-use project featuring 85 apartments over a commercial retail center.

### Challenge

Several options to reduce waterproofing costs and accelerate the schedule were evaluated by the design and construction team.

### Solution

Hycrete System W offered superior performance to other waterproofing systems, was more cost-effective and accelerated the construction schedule. Using Hycrete System W eliminated the need for waterproofing membranes and saved American Constructors approximately \$71,000 up-front in material savings.

### Material Savings

Location	Membrane			Hycrete System W	
	Type	Area (ft <sup>2</sup> )	\$/ ft <sup>2</sup>	\$/ ft <sup>2</sup>	Savings
Shotcrete Walls	Bentonite	19,622	\$6.00	\$3.39	\$51,233
Perimeter Slab on Grade	Bentonite	3,188	\$6.00	\$2.71	\$10,485
Podium Decks	Liquid Applied	6,152	\$4.00	\$2.37	\$10,014

**Total Material Savings = \$71,731**

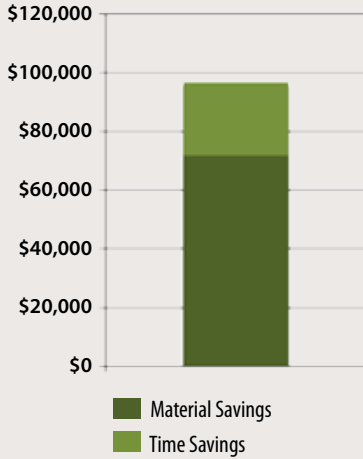
In addition, using Hycrete System W saved five days on the critical path, totaling \$25,000.

### Time Savings

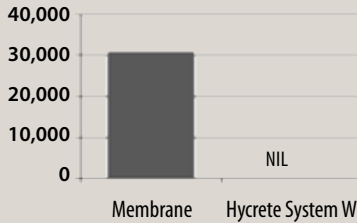
Location	Membrane Type	Membrane Critical Path	Daily Cost	Hycrete System W Savings
Shotcrete Walls	Bentonite	-	\$5,000	\$0
Perimeter Slab on Grade	Bentonite	-	\$5,000	\$0
Podium Decks	Liquid Applied	5 days	\$5,000	\$25,000

**Total Time Savings = \$25,000**

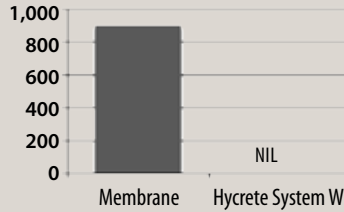
### Total Savings



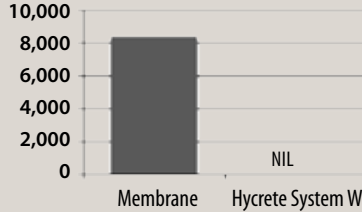
### Landfill Waste (pounds)



### VOCs (pounds)



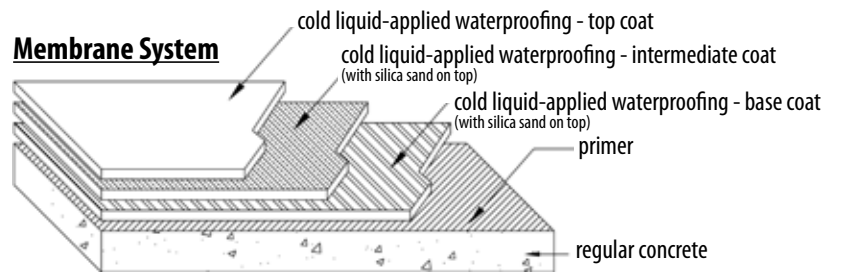
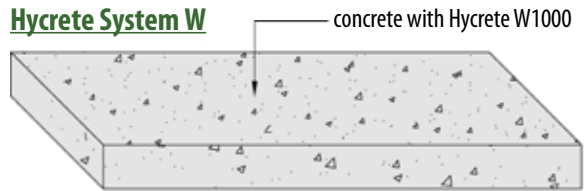
### Polymers (pounds)



## Results

Total material and time savings are \$96,371. In addition, the elimination of waterproofing membranes resulted in environmental savings. Over 31,000 pounds of landfill waste, 900 pounds of VOCs (volatile organic compounds), and 8,400 pounds of polymers were eliminated.

### Deck coating details



### Penetration details

