



Delivering Concrete Solutions

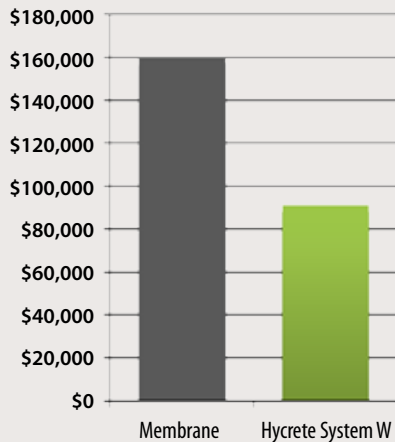


Central Village, Los Angeles, CA

“
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"> • Perimeter walls • Elevated deck perimeter • Podium decks
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 ²)	\$/ ft ²	\$/ ft ²	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

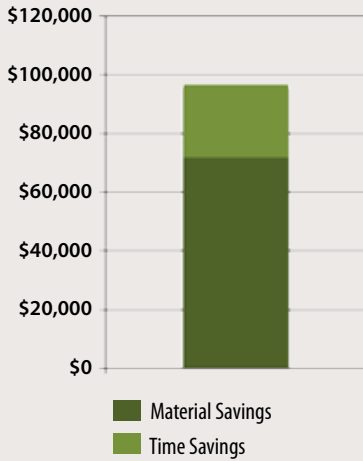
In addition, using Hycrete System W saved five days on the critical path, totaling \$25,000.

Time Savings

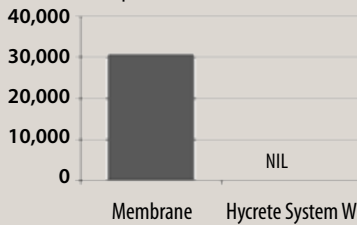
Location	Membrane Type	Membrane Critical Path	Daily Cost	Hycrete System W Savings
Shotcrete Walls	Bentonite	-	\$5,000	\$0
Perimeter Slab on Grade	Bentonite	-	\$5,000	\$0
Podium Decks	Liquid Applied	5 days	\$5,000	\$25,000

Total Time Savings = \$25,000

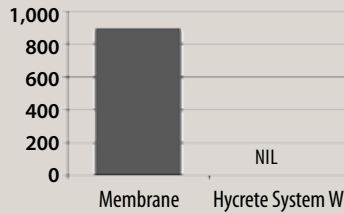
Total Savings



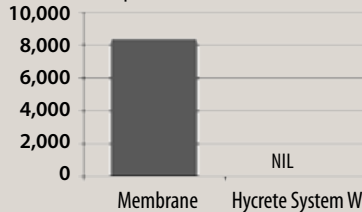
Landfill Waste (pounds)



VOCs (pounds)



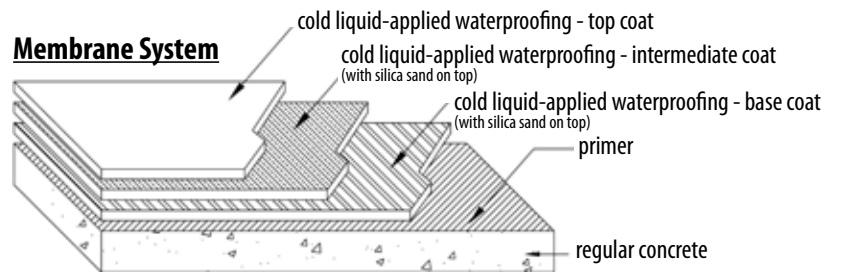
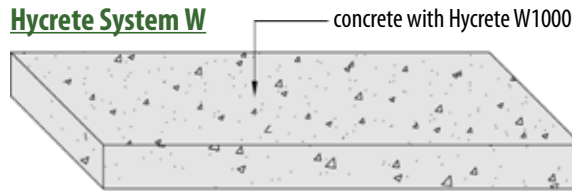
Polymers (pounds)



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

