

Case Study: Tilt-Up Project—Hanover, PA

Lehigh Cement Company LLC / White Cement Division



Gray concrete



Gray concrete painted white

With the ever increasing use of tilt-up construction, builders and building owners now have another choice for exterior surfaces.



White concrete using Lehigh White Cement



White Cement Concrete Panels

The building's footprint is approximately 324 feet by 366 feet or 118,000 square feet.



Tilt-up panels were created using reinforced steel with a white concrete facing mix. The facing mix was sandwiched with Styrofoam insulation and conventional gray concrete.

The panel's cross-section is approximately 3 inches of white concrete facing mix, 3 inches of rigid insulation and 8-1/2 inches structural gray concrete back up.



This building's cost was \$5,000,000, or **\$42.35 per square foot**, which included \$60,000 for the white concrete, or **\$0.50 per square foot**.



Since the exterior wall area is approximately 58,000 square feet, and with painting costs running between \$0.75 to \$1.50 per square foot, that equates to between \$ 43,500 to \$87,000 vs. \$60,000 for the white concrete.

Therefore, cast-in-place white concrete is very competitively priced, compared to painting and its ongoing maintenance costs.



Painting concrete can cost up to \$1.50 per square foot.

White concrete remains white, where as painted concrete may need repainting.

Project Summary

Project: Cold Storage Warehouse
Location: South Central Pennsylvania
Owner: Hanover Foods – Frozen Food Storage
General Contractor: Conewago Enterprises, Hanover, PA
Tilt Up Contractor: Stief Concrete Work, New Holland, Pennsylvania



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THE LEHIGH SERVICE ADVANTAGE

Lehigh White Cement's experienced technical service engineers and sales representatives are located throughout the United States and are prepared to offer their expertise to assure the success of your projects.

From design to project completion, Lehigh White Cement offers the technical support, service, and the finest products available to ensure best results. With 4 sales offices supported by numerous distribution centers, Lehigh White Cement provides prompt delivery of its white cement products throughout the United States and Canada.



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