PROJECT SPOTLIGHT

MICHIGAN STATE UNIVERSITY
BROAD ART MUSEUM

PROJECT DATA
Location – East Lansing, MI
Application – Self-Consolidating Concrete
Contractor – Granger Inc.
Concrete Producer – Consumer’s Concrete Corporation
Total Area – 46,000 ft²

PRODUCTS FEATURED
Plastol 6400
Superplasticizer – High Range Water Reducer
Euco Diamond Hard
Liquid Densifier and Sealer

SCOPE OF PROJECT
• Stringent concrete standards and surface requirements
• Three levels of angled walls, some tilted at 70-75 degree angled walls with virtually no parallel or perpendicular walls
• Extensive experimental test mixes and pours that resulted in a much-analyzed mix optimized for final placement

PROJECT SUMMARY
The iconic Broad Museum, one of the few award-winning, self-consolidating architectural structures in the country, features interior concrete groundbreaking in both form and material composition.

Primary to the Broad Museum project was to create an almost perfect canvas of concrete with smooth and unmarred surface walls (no bug holes or voids bigger than the tip of a pen).

After months of test mixes and pours, Euclid Chemical’s Plastol 6400 superplasticizer admixture was selected because of its superior performance characteristics. Not only did Plastol 6400 provide a solution for a beautiful, unmarred structure, but it also out-performed the required strength of 5,000psi with an actual strength of 10,000psi.

Euco Diamond Hard liquid densifier and sealer was used to provide a decorative, durable concrete floor.

Photos provided by Integrated Design Solutions - Troy, MI (Kevin Marshall)