

## Lake Highlands UMC has Reason to Celebrate!



**Submitted by: Jim Rowe, Regional Sales Manager**  
**Contractor: Hagler Construction, Plano, Texas**  
**Project: Lake Highlands United Methodist Church, Lake Highlands, Texas**  
**Products: Mirastamp, Mirastain i, MVERS™**

The parishioners of Lake Highlands United Methodist Church recently celebrated the consecration of their beautiful new sanctuary and chapel. This prominent 15,000 sq. ft. structure is the result of months of extensive renovation and new construction, with a total project cost of \$3.6 million. This striking new structure is an inviting presence for Lake Highlands residents seeking a peaceful place of worship.

Lake Highlands UMC has experienced significant growth in members and faced the need to enlarge their facilities to accommodate the growing ministry. Rev. John Thornton, the senior pastor at Lake Highlands UMC, along with his facility staff and experienced congregation members, undertook this massive project with the skilled assistance of McGill Architects, Inc. and Hagler Construction. The Project Manager, Cody Williams, and the Superintendent, Phil Holder, met with the church staff and various suppliers to determine the best overall design for the new facility. The scope of the project included a large new sanctuary and narthex,

classrooms, a full basement renovation for a new youth area, and a beautiful new chapel for smaller worship groups and prayer space.

### **The Challenge**

The new spaces required interior design finishes that would integrate the new facilities with existing ones, create a tranquil worship setting, and provide long-term durability in these high traffic areas. The aesthetics of the small chapel area were of particular interest to the project team, tasked with creating an old, traditional ambiance in this newly constructed space. The project team turned to Miracote's line of decorative, durable, protective coatings for a unique aesthetic solution.

### **The Solution**

Miracote's Mirastamp was selected as the product of choice due to its durability, versatility, and wide range of texture and pattern options. Used in conjunction with Mirastain I, an architectural chemical accent stain, the unique look and feel of 'old world' was created in this brand new area.

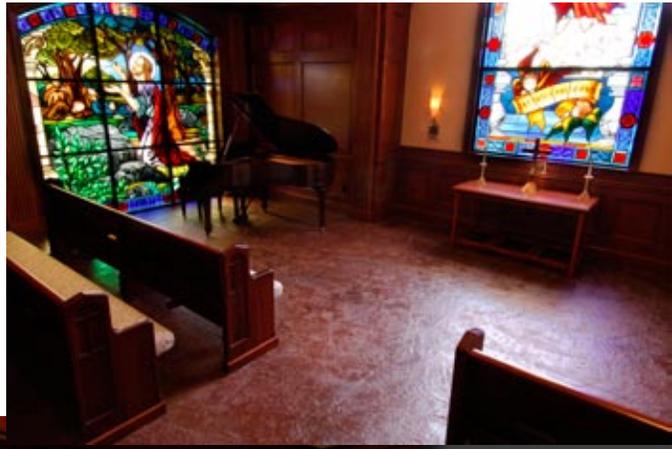
Prior to application of Miracote's Mirastamp product, a calcium chloride test was performed to ensure that the moisture vapor transmission of the newly poured concrete slab did not exceed the manufacturer's recommended levels. The calcium chloride test results indicated that the moisture vapor transmission rate of the new slab exceeded the recommended maximum. Therefore, to ensure long-term adhesion of the Mirastamp overlayment, the slab required application of a moisture vapor transmission mitigation system. Miracote's MVERS™ (moisture vapor emissivity reduction system) was selected for its proven performance and high quality material formulation. MVERS is a fluid-applied epoxy moisture mitigation system specifically designed for use as a negative side vapor transmission barrier that withstands moisture vapor emission rates (MVER) of 15 lbs./1,000 sq. ft./24 hrs, as well as high pH levels.

## The Action

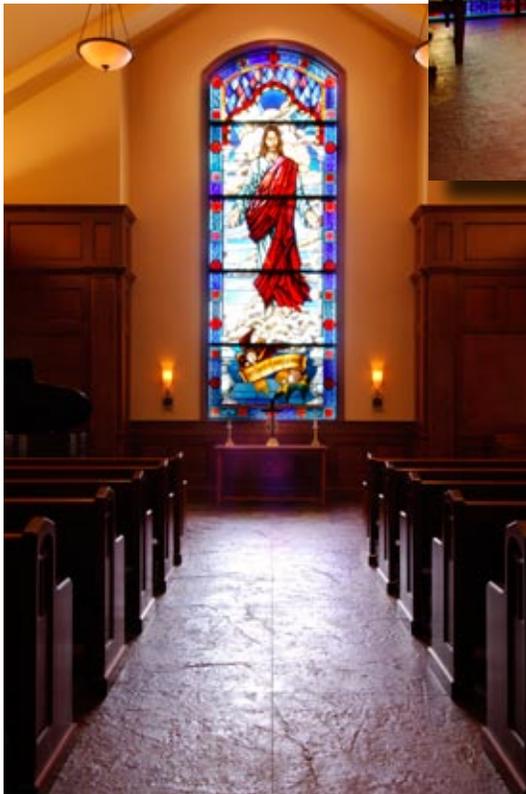
The concrete surface was prepared to provide a proper profile (ICRI Guideline No. 03732, CSP 5—8). Miracote's MVERS was applied to a dampened substrate with a 3/32" notched squeegee, then rolled immediately with a 3/8" nap roller. After the recommended curing period, the Mirastamp overlayment was applied.

Mirastamp is a liquid polymer modified cement material that is mixed on site at the time of application. Its wide range of color, texture and pattern options, combined with unlimited finished installation techniques make it one of the most versatile and aesthetic overlayment products on the market today. This cementitious stampable

provides superior resistance to salts, waterborne chlorides and freeze-thaw conditions, making it an ideal solution for interior and exterior applications. This highly flexible



The Lake Highlands UMC congregation is thrilled with the results. The chapel, though new, provides a peaceful haven for parishioners to enjoy the feel of 'old world' tradition as they worship and pray. This successful project is a true testament to the



system is trafficable, resistant to UV degradation and has a Class A Fire Resistance Rating. Mirastamp will provide the long-term durability needed to withstand heavy foot and wheeled cart traffic expected in the chapel area.

The skilled application methods used included a slate texture of the Mirastamp combined with a Chocolate Brown Mirastain I chemical stain. Mirastain I is a combination of metallic salts in a water based solution designed to color surfaces and antique cementitious materials. It is a

combination of high-grade pigment dispersion, co-polymer and waterbased carrier solution specifically formulated to penetrate concrete, masonry and polymeric cementitious surfaces.

results that can be achieved by the commitment of manufacturers, contractors and distributors to provide high-quality products, attention to structural and design details, and skilled craftsmanship.

*For additional information on Miracote's comprehensive line of concrete renovation & protection products, thermal & moisture protection products, and floor & wall systems, visit [www.miracote.com](http://www.miracote.com).*

overlayment product is applied in one 3/8" lift with gauge rakes, a form release agent is then applied prior to application of the texturing tool. When properly sealed, it becomes a durable system that



**MIRACOTE Product Line, by Crossfield Products Corp.**

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