

Excellence in Waterproofing, Roofing and Surfacing Technology

Fall 2014 / Winter 2015

Market leadership



Beacon of sustainable design: 'Blue roofs'

Responding to concerns of global climate change and the increasing incidence of extreme precipitation events¹, city governments² and others continue to evaluate and encourage effective stormwater management to reduce urban runoff. Chicago, Philadelphia, New York, Seattle and Portland all have stormwater management or incentive programs, as do many states and counties.

"Blue roofs protect waterways from pollutants by reducing runoff during peak flow periods and enabling more mixed stormwater and sewage to be treated at wastewater treatment plants," explains Brian Kelly, national design & specification manager for Kemper System America. "They also reduce the risk of sewer systems being overwhelmed, of street and driveway flooding, and of sewer backups in basements."

Blue roofs work by retaining stormwater runoff and, through restricted-flow drains, allowing it to slowly enter the sewer system. These special roofs hold up to three inches of water and require high-quality, durable waterproofing assemblies designed for rooftop detention use. They are typically designed to retain water for up to 24 hours. Delayed discharge gives local sewer systems a chance to recover and wastewater treatment systems a chance to process stormwater from other sources. Kemper System delivers AIA-credited presentations on blue roofs and other sustainability topics at American Institute of Architects forums, and other venues around the country. "Cities are recognizing the importance of stormwater management and are creating programs and incentives such as tax credits, water charge discounts and grants to building management for sustainable designs including roofing systems," he said.

Blue roofs are sometimes used in tandem with roof gardens and site landscaping to minimize watering requirements and maximize water retention at a site. Excessive rainfall may still overwhelm a local stormwater system, but collectively blue and green roofs become much more than a drop, says Kelly. "While the impact of any single building may be small, every blue or green roof project, and every building that use these, serves as a beacon for others to follow."

View from the top Sustainability shifts perspective The more than \$630M state-of-the-art Belfer Medical Research Building officially opened in January 2014. The 19-story landmark is 260 feet long x 100 feet wide at the base, and the tower includes 13 stories of research laboratories, being equipped with advanced research instruments. Interior spaces are designed to foster collaboration of cross-disciplinary research teams.

References

(1) From "Climate Change Indicators in the United States: Heavy Precipitation." U.S. EPA. Updated August 2013. www.epa.gov/climatechange/indicators. Accessed June 2014.

(2) Source: Water Environment Research Foundation (WERF) www.werf.org. Accessed June 2014.



IN THIS ISSUE

View from the top Sustainability shifts perspective
Market leadership Beacon of sustainable design: 'Blue roofs'
Fountains and water features University of Michigan reflecting pool
Extreme weather - What's next?
Renewable resources spotlight
In the news People in the news
Behind the scenes: Kemper System logistics
Trade shows Blue roofs command attention at AIA
Project tracker

Sustainability is a term that goes well beyond the traditional goal of energy efficiency in "green building" design. It implies a triple bottom line that considers people, planet and profitability all at once in design decisions. It means taking a longer-term view, which may imply a higher initial capital outlay in favor of solutions that last longer, that are better for people and the planet – and are more cost-effective in the long run.

Perspectives may differ among decision-makers, but most would agree that the environment and design are already in transition, and the only question is how quickly we choose to adapt.

We are committed to best-in-class solutions for a sustainable future.

From raw materials and technology to engagement with the design community, Kemper System is taking a leadership role. We offer a range of AIA-credited seminars including blue roofs and green roofs, of increasing importance to sustainable design. Our field sales representatives also schedule "Lunch 'n' Learns" on the underlying technology.

In addition, our solvent-free and odor-free systems are especially important for schools, medical facilities and occupied buildings, as well as new construction. As the liquid resin is applied cold, it's safer for applicators, too.

Kemper System is a global leader in roofing and waterproofing technology and holds the original patents on cold, liquid-applied reinforced membrane systems. Easy installation, reliability and extended-wear characteristics make them a premiere choice for sustainable design.

Richard Doornink, Managing Director, Kemper System America

Market leadership



The Belfer Medical Research Building

Weill Cornell Medical College, New York, NY

An interview with campus architect Bill Cunningham

What was your role on this project?

The strategic plan for Weill Cornell Medical College outlined the basic purpose of the new research building. My role was to be in charge of the architectural programming effort and to manage all the design phases up until the project was awarded for construction.

What is involved with architectural programming, and what was the process?

Architectural programming develops a plan for the interior which begins by listing all the spaces in the building and their relationship to each other. It also lists all the facilities that should be in the building (such as laboratories, meeting rooms, offices, social spaces). This is usually accomplished by interviewing the people in the user groups - in the consulting, research and educational programs -- that are going to be in the building. The Belfer Research Building was interesting to program because at the onset we didn't know what specific research would go into the building as it was being designed. So the research facilities were designed in a fairly generic way. We tried to design what could be used by almost anyone. That was done by assembling a panel of our faculty who helped us develop the space program for the building.



How is this programming project different than others at Weill Cornell Medical College?

The programming for this building is a real departure for us at Weill Cornell. Up to now, laboratories and academic space have always been assigned to the various academic departments -- such as medicine, surgery, or biochemistry -- and each department has its own labs. The Belfer Research Building is different because we want to encourage collaborative research across departments and concentrating on various diseases.

The building's sustainability features include a "blue roof" stormwater detention system.

For instance, we will have laboratories researching brain and mind diseases, and you may have researchers there working side-by-side with those from the department of neurology, neurosurgery or psychiatry. We are assigning laboratory spaces with these groupings in mind, and we have a connecting stair between every pair of floors to encourage communication. So we are breaking down traditional academic silos and developing a crossdisciplinary approach to problem-solving and research innovation.

Other areas of research focus include cardiovascular and pediatric diseases.

What about LEED and the broader context of sustainability?

All of our construction at the Weill Cornell Medical College, both interior renovations and new construction, is designed to meet a minimum LEED Silver status. We are a party to the University President's Agreement among multiple universities pledging to make their buildings sustainable. Then there is New York Mayor Bloomberg's Plan 2030 to increase sustainability of city buildings by that year. Between these various mandates we design everything to make LEED Silver. Belfer, though, is the first where we've applied for Gold certification, the nationally accepted benchmark for the design, construction and operation of high-performance green buildings.

Sustainability features

Blue roof

The Belfer Research Building, designed by Todd Schliemann of Ennead Architects, includes three roof levels at the 17th, 18th and 19th floors. The rainwater detention system not only helps regulate stormwater discharge, but it feeds a water fountain and irrigates planters on the second-floor terrace.

The system uses the solvent-free and odor-free KEMPEROL[®] 2K-PUR cold, liquid-applied membrane system for waterproofing the blue roof as well as the terrace and fountains on the lower level. The reinforced membrane system is designed for long-service life and is backed by an extended warranty.

Eagle One Roofing Contractors, Inc. (Astoria, NY), a certified Kemper System applicator, applied the waterproofing. The two-part resin system fully adheres to the substrate and is fully reinforced with KEMPEROL® 165 fleece. The resulting membrane is completely seamless and unaffected by ponding water and ice. It resists exposure to UV light, chemicals, oils and solvents. It is impervious to bio-deterioration and is both rootand rot-resistant so it is also ideal for green roofs and landscaped areas.

In general, rainwater detention systems can either collect water in holding tanks and then meter it to the public sewer system, or retain it on a waterproofed roof expanse. The blue roof on the Belfer Research Building complies with New York City requirements and can hold up to three inches of water.

The supporting structure below was designed to carry the water load, with an allowance for heavy snow or ice buildup. The roof deck is concrete slab and includes a layer of rigid insulation above the waterproofing membrane for added energy efficiency. The gravityfed drainage system was carefully sized to control the

speed of drainage without the use of pumps, sometimes required for rainwater detention systems that use holding tanks.

Energy-efficient curtain wall design

On the south side of the building, Ennead created a double-skinned, fritted glass curtain wall with openings and sun-shading devices that absorb the sun's heat before it gets trapped inside, which would require the HVAC system to pump out more cold air. Continuous ribbon windows flood the building with natural light, and energy-efficient HVAC, lighting control and waterconservation systems save on power and resources. The building's green infrastructure is expected to shrink Weill Cornell's energy bill for it by about 30 percent and reduce carbon dioxide emissions by about 26 percent compared to a building complying with the minimum requirements set by typical industry guidelines and standards.

HVAC

The building includes a high-tech, multi-zoned HVAC control system to manage the indoor environment within different spaces. Biomedical laboratories, for example, generally require special air filtration systems supported by high-volume air circulation. Each of the laboratory levels includes four fume vents to the outside, except for the chemistry laboratory on the top floor which uses 40. In addition to thermostats and humidity sensors, indoor spaces utilize occupancy sensors to assist in regulating the ambient indoor environment and lighting to improve energy efficiency.





"Productive collisions" spark collaborative research

The Belfer Research Building is the second building for Weill Cornell Medical College designed by Todd Schliemann / Ennead Architects (New York, NY). Ennead partner Schliemann also conceived the award-winning Weill Greenberg Center, the college's first patient care building, which has energized growth of the clinical practice since its completion in 2007.

The buildings are adjacent and complement one another in their eco-social design. Schliemann explains the social aspect of the architecture for the sparkling research facility: "The idea is to create what we call 'productive collisions.' We created opportunities for researchers to meet each other and discuss what they are doing.

Research these days is necessarily interdisciplinary. There is a lot of cooperation within research teams, but we want the various teams to get together, as well."

The new research building holds special significance for Schliemann, a 1979 graduate of the Cornell University College of Architecture, Art and Planning. "The advancements in science in this building will offer tremendous contributions to society and the future of mankind," he said. "It's a very, very inspirational time to be working on laboratories because the breakthroughs in science are exponential, and this building will give scientists a state-of-the-art vehicle to accomplish Weill Cornell's mission."

University of Michigan

Waterproofing the "Class of '47" reflecting pool and Fred's Fountain

Contractor's perspective

Royal Restoration & Waterproofing, Livonia, Michigan

The cold liquid-applied reinforced membrane waterproofing system from Kemper System America was specified for the project by Simpson Gumpertz & Heger Inc. of Boston. Royal Restoration & Waterproofing (Livonia, Michigan), an approved vendor for the University of Michigan since 2005, was awarded the installation contract after a competitive bidding process.

The concrete floor and sides of the 19-inch-deep pool were waterproofed with the KEMPEROL[®] 2K-PUR cold liquid-applied reinforced membrane system all the way to the top. A cast-stone cap overhangs the edge of the reflecting pool with about a 1½-inch lip. The job also involved removing the existing caulk around each 3 ft. x 16 in. stone and recaulking all the joints.

In addition, the pool has three large metal drains at the bottom as well as circulation drains that suction water and feed the fountainheads at one end of the reflecting pool. At the walls, there are also skimmer pockets.

Such challenges were easy to address with the Kemper System, according to project manager Ryan Meekins of Royal Restoration, a Kemper-certified applicator. "To waterproof around the openings, we finger-cut the reinforcing material (KEMPEROL® 165 polyester fleece), saturated the cut pieces with the KEMPEROL® 2K-PUR resin, and positioned them over the openings with the fingers extending into the drains. Then we finish by rolling on more resin. We used the special EP5 primer on the drains to promote adhesion to the metal. The field membrane across the floor and the walls covers over the finger joints," he explained.

The liquid resin is applied cold with a wide roller, and the reinforcing membrane is rolled into the wet resin a section at a time, and then the fleece is top coated with more resin. The job needed to be completed into the winter because the reflecting pool is required to remain operational. The solution was to set up a tent over the



entire pool, and use three temporary heaters inside to help maintain a target temperature of 58-60 °F.

"We finished this job in the winter, but our team of 6 to 8 worked the whole time in T-shirts," Meekins said. When the weather on campus got cold, it got cooler inside the tent, but it was still comfortable for the work crew and well within the application range of the product. "The colder temperatures didn't affect the application. Our team just worked together so we never got too far ahead when we were rolling out the fleece and coating the membrane."

"It's really a unique material, and once you understand the KEMPEROL® 2K-PUR system, it's easy to apply. You can do a lot of different types of waterproofing jobs with it and seal around all the details," he said. Royal Restoration has since used the system to protect the roof of the Galbraith Chapel at Ohio University.

Including prep work, the University of Michigan project took about two months from start to finish. Meekins notes that Roland Weith, Kemper System's national field technical manager, provided on-site support. "He gave us advice during the installation and checked on our progress all the way to the end."

Specifier firm:	Simpson Gumpertz & Heger, Inc. (Boston)	
Installer:	Royal Restoration & Waterproofing, Inc. (Livonia, MI)	
Size of project:	14,420 sq. ft.	
Products used:	KEMPEROL [®] EP5 Primer	
	KEMPEROL [®] 2K-PUR Membrane System	

with 165 Fleece reinforcement KEMPERDUR[®] Deko Finish



This 240' x 60' reflecting pool is a focal point at the University of Michigan in Ann Arbor, and formally known as the "Class of '47 Reflecting Pool and Fred's Fountain." When the original waterproofing exceeded its life expectancy, the university wanted a solution designed to last well into the future.

Rising to the challenge of "Fallingwater"

Fallingwater is regarded as one of the best-known buildings of world-renowned architect Frank Lloyd Wright (1867-1959), who built this legendary private home in the Allegheny Mountains of Pennsylvania from 1935 to 1937. His client was department store owner Edgar Kaufmann from Pittsburgh, who initially expressed more surprise than enthusiasm when confronted with Wright's idea to build the stone-and-concrete house directly above a waterfall. The occupant's enjoyment would came not from a view of the waterfall, but from the sound inside.

The home instantly became a functional work of art, and it became a museum in 1964. The name, Fallingwater, describes the romantic glorification of water within natural surroundings, yet it also describes a perennial problem of architecture itself -- moisture. Wright's design represented a long-term challenge!





Water meets its match

The stone façade of the home includes projecting reinforced concrete balconies and overhanging roofs. By 2002, structural shifts and the natural position of Fallingwater led to the need for comprehensive repairs.

Kemper System membranes were applied to approximately 1,000 square feet of flashings and penetrations (as well as to a modified roof in the field). The challenging part of the application was to terminate the membrane on an uneven stone surface. The stone could not be ground or removed because of its historical value. The solution was to use a KEMPEROL[®] BR resin/sand mixture to level the uneven vertical surface and to create a self-terminating, fully adhered detail. (Previous attempts using a termination bar had failed.)

Thanks to the resiliency of Kemper System membranes, they can accommodate some structural movement. The liquid waterproofing system fully bonds with the substrate for long-term waterproofing protection. These characteristics also make Kemper System membranes valuable for critical joints and junctions between different materials, such as in the case of Fallingwater's stone and concrete. The membranes remain elastic even under severe weather conditions; they are rot- and root-resistant and offer a peace-of-mind waterproofing solution.

Extreme weather – What's next?

Percent (%)

Be prepared

Weather, especially extreme weather, takes a toll on the building envelope. Gale forces can dislodge roof shingles and lift rubberized sheet like paper. Falling limbs and sharp blowing debris can cut roofing as easily as a backhoe. Water can penetrate cracks, seams and flashings, and then expand and freeze. Roofing and waterproofing materials can be attacked by UV light, roots, rot and other hazards.

Kemper System's cold, liquid-applied reinforced membrane bonds fully to substrates (including vertical surfaces) and helps eliminate many of these concerns, including the most common causes of building leaks.

'At-a-glance' advantages

Installation

Monolithic waterproofing membrane system is



- completely seamless; bonds fully to substrates (including vertical surfaces).
- Cold, liquid-applied resin reinforced system is selfflashing and self-terminating. Eliminates the need for separate flashing materials and associated labor.

Wear life

- Fully reinforced system provides exceptional durability. Resists chemicals, corrosives, UV light, rot and roots. Unaffected by standing water, snow and ice.
- Easy to pinpoint leaks due to damage from storms, etc. Damaged areas require only localized repair.
- 20+ year warranties available.

Sustainability bonus

An additional layer of the reinforced membrane system can be applied at any time over properly supported substructures to extend or completely renew service life for another term. When the membrane must be removed, materials are inert and accepted by landfills.



US Climate Extreme Index

The National Oceanic and Atmospheric Administration (NOAA) combines the averages of multiple above- and belownormal weather conditions. The index summarizes anomalies in temperature, droughts and precipitation across the continental U.S. The data between 1970 and 2010 show a distinct uptick, as noted by the green line.

In the news

Renewable resources spotlight

Kemper System focuses on sustainable products with renewable resources and solvent-free and odor-free applications. These are two of our industry-leading products.

KEMPEROL® 2K PUR

Renewable resources	Resins based on up to 80% castor oil
	ldeal for vegetated roofs (FLL approved; no root barrier needed)
	Ideal for blue roofing (water retention systems)
	ldeal for cool roofing (high-reflectivity coatings available)
LEED Stormwater Design	SS Credit 6.1 (1 point) SS Credit 6.2 (1 point)
LEED Heat Island Effect	SS Credit 7.2 (1 point)
System approvals	UL, FM tested and approved

KEMPERDUR® TC Traffic Coating

This solvent-free coating offers a high performance, mineral-filled topcoat system for use with mineral aggregates to provide a heavy-duty traction-enhanced surfacing over concrete substrates.



People in the news



New regional sales manager knows the Big Apple

Joe Hoekzema joins Kemper System America as New York regional sales manager, where he is responsible for sales development across the Bronx, Brooklyn,

Manhattan, Queens, Staten Island and Long Island.

He brings over 20 years of sales and management experience to his new role. Hoekzema is well acquainted with the building and construction market in the Big Apple, recently as regional sales manager for the New York City offices of Kenseal Construction Products.

He earned a Master of Business Administration in marketing and finance, and a Bachelor of Science in marketing from Ohio State University. Hoekzema resides in Queens, N.Y., and can be contacted through Kemper System's national sales office in Closter, NJ or via email at jhoekzema@kempersystem.com.

Others on the New York team for Kemper System include key account manager Gina Cali (gcali@kempersystem.com), who addresses the needs of architectural firms and building management companies, and manager of contractor services Krzysztof Dobrzanski (kdobrzanski@kempersystem.com), who addresses the needs of

New products

New answer for balconies and parking decks

COELAN Coating Systems offer a value-based solution for balconies, terraces, patios, stairs, parking garages and other applications where an unreinforced coating system may be preferred due to assembly or installation constraints.

There are two flexible options for installations, one specifically designed for foot traffic, the other specifically for vehicular traffic:

- The **COELAN Balcony System** is a multi-layer coating system engineered for non-skid pedestrian traffic on balconies, walkways, terraces, entries, stairwells, pedestrian bridges, and interior floor surfaces that may require additional protection such as mechanical rooms, laundry rooms, and other areas where moisture protection is a concern.
- COELAN Parking Systems offer a variety of primers to prepare the surfaces based on the existing condition. The standard system is suitable for any parking garage, driveway, passenger drop-off area, or loading dock. The heavy-duty system offers additional UV protection and rapid cure to get the facility back in operation as soon as possible.

The low-odor products were developed to meet the strict air quality and VOC regulations set by Southern California, and meet both AQMD and SCAQMD requirements. The coatings are resistant to chemicals, weather and UV light and are available in a variety of stock, non-stock and custom colors.

contractors and construction companies.



Sales network expands with Mexico City office

Building on its sales and distribution network, Kemper System America announces expansion into Mexico to serve the commercial roofing and waterproofing market. Kemper System Mexico is

headquartered in Aguascalientes, near Mexico City.

The office is headed by sales manager **Luis Ballesteros**, who brings more than 20 years of professional experience in sales and marketing to his new post. He has been involved in the coatings industry for 12 years, including as a marketing manager for Sherwin-Williams Mexico.

Luis can be reached at lballesteros@kempersystem.mx.

For more information, call 1-800-541-5455, or email inquiry@coelanamerica.com.





Kemper System tours America to showcase technology

This specially equipped trailer is travelling coast to coast to demonstrate the advantages of cold, liquid-applied reinforced roofing and waterproofing membrane technology from Kemper System America.

It is being deployed at distributor events, trade shows, offices and work sites. The van visited the New England and mid-Atlantic states in 2014, and plans to visit the western and southwestern states in 2015.

The first stop on the multi-year odyssey was a Grand Opening event for Allied Building Products' new branch on eastern Long Island last summer.

"This is a great tool for educating architects, building managers and contractors who may not be familiar with the advantages of our technology," says national sales manager Brett Steinberg. During trailer stops, in addition to the solvent-free and "odor-free" KEMPEROL® 2K-PUR system, representatives also demonstrate the new, easy-to-use KEMPEROL® Roofpatch kit for emergency repairs.





Logistics helps ensure on-time shipments



As production operations grow, so does the demand for efficient incoming and outgoing logistics to help ensure consistent high-quality products are shipped on time. This vital aspect of Kemper System operations is under the leadership of Logistics Manager Jim Horsley, who understands the importance to the customer.

Horsley and his team make sure orders are processed, picked and packed in a timely manner for shipment around the country. Shipping quickly is a priority, and about 90-95% of orders go out on time. Orders can be scheduled for delivery to a job site or warehouse for a

specific date, and for most products, orders placed before noon can be shipped the same day.

Logistics is managed from Kemper System's headquarters and North American manufacturing facility in West Seneca, New York. This also includes shipments to other primary warehousing operations in New Jersey and Canada. Often, distributors have large orders shipped to their warehouses. Large shipments can take more time to ship. Horsley has established strong relationships with shipping companies that have a track record for reliability. If shipping to the New York area, an order can be called in at 4 p.m. and picked up for a shipment that same day.

In Horsley's five-year tenure as logistics manager, he has helped fine-tune the process. As the number of shipping requests grew, the staff also grew. At the same time, procedures and systems were improved for higher efficiency in areas including order processing and inventory control. Logistical functions were also tied into the Kemper System Integrated Management System (IMS) for a smooth exchange of information across the company. "We communicate with other departments, such as purchasing, on a daily basis. We are one big family," Horsley says in his British accent.

Sustainability

Kemper System is committed to environmental responsibility and sustainability. In the logistics department, several environmental practices are in place in conjunction with the ISO 14001 certification. As the raw materials arrive, the department checks the paperwork to ensure that it meets all quality standards. The product then moves to the quality control department for testing. To keep waste to a minimum, shipping materials are reused or recycled. For example, any inbound pallets are reused to ship product out and any cardboard that cannot be reused is recycled.

Horsley ensures a sustainable, quality operation from start to finish. For outbound operations, lot numbers, item numbers and DOT labels are checked. Separate pickers and packers make sure the product is packaged correctly and without damage to minimize unnecessary returns and waste.

The man behind it all

Before joining Kemper System in 2009, Horsley worked in the picking and shipping department of McKesson Pharmaceutical and as a supervisor at Excel Precision. Originally from northeast England, he moved to the U.S. in 2000 and honed his logistical skills. At home, he and his wife became foster parents before adopting their first son in 2005. The family grew in 2011 when they adopted a son and two daughters, who were siblings. He currently resides with his wife and four children in Cheektowaga, NY.



Trade shows



Project tracker

Nearing completion

- Bellevue Pacific Towers, WA
- NY Hall of Science, NY
- Stuyvesant Town, NY
- World Trade Center, NY

In progress

- Arlington National Cemetery Welcome Center, VA
- Bronx Zoo Giraffe Exhibit, NY
- Chase Building, AZ
- Hoosier Energy, IN
- Level 3 Communications, CO
- Moynihan Station, NY

Blue roofs command attention at AIA

At AIA 2014 in Denver, architects, building managers and contractors received a crash course in roof rainwater detention systems from Brian Kelly, national project design and specification manager for Kemper System America. The AIAcredited blue roof seminar was booked more than a month in advance.

Additional blue roof industry presentations are available. See the Kemper System America website for a complete list of its AIA-credited seminars.



Visit Kemper System America at the following shows:

- IRE Feb. 24-26, 2015, Booth #757
- RCI Mar. 10-15, 2015, Booth #107
- AIA May 14-16, 2015, Booth #1717
 - MIT, MA
 - Rikers Island Correctional Facility, NY
 - Salem MBTA Station, MA
 - Shell Canada, Ontario
 - Toronto Windmill Project, Ontario
 - University of Iowa

Kemperol[®] Roofpatch recognized by *Roofing Contractor*

The KEMPEROL[®] Roofpatch kit was honored by *Roofing Contractor* magazine with a "Roofer's Choice Award" for the highest number of inquiries in the Materials & Gadgets section when the product was first reported in an earlier issue. The all-in-one pouch kit is ideal for small emergency repairs.











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