

# PINNACLE

Excellence in Waterproofing, Roofing and Surfacing Technology

Spring / Summer 2015

## Market leadership

### Freedom Tower finally touches the sky

After nearly a decade of construction, the \$3.9 billion One World Trade Center (1 WTC) opened its doors in 2014. The challenges involved with roofing/waterproofing a high-rise are magnified with height, and at an official height of 1,776 feet, 1 WTC (formerly Freedom Tower) offers some valuable lessons.

With most new construction the building envelope, including the roof, is completed first. In this case, the main roof was one of the last structural items to be completed. (See "From the ground up.") Steve Guarino, general superintendent for waterproofing contractor, The Jobin Organization, Inc. (Farmingdale, NY), shared some experiences working on the iconic structure while, as he puts it, "A billion eyes were watching."

The Jobin Organization, originally established as Jobin Waterproofing, Inc. in 1968, is a powerhouse in the New York construction market in areas such as roofing, waterproofing, exterior restoration and construction management. The company is a Kemper System certified applicator and has completed scores of projects with the cold liquid-applied reinforced membrane systems.

#### Flexible solution

The main roof is about 19,000 square feet. "One of the primary reasons we won the bid with the KEMPEROL® system was all the exposed steel and many penetrations. There were maybe 300 or 400 penetrations on the main roof. That included the structure for the three cooling towers above us, the spire, as well as the everyday vent pipes, drains, conduits, plumbing and other piping."

**"There were no areas bigger than about 10 ft. x 10 ft. without some penetration."**

– Steve Guarino, general superintendent, The Jobin Organization, Inc.

The Jobin Organization ran a 15-20 person crew on the job. "There were so many configurations that needed waterproofing – curbs, drains, HVAC, beams, nuts and bolts, and around the base of the spire. There was so much steel, sometimes we were bumping heads with our hardhats."

(continued on Pg. 2)



Freedom Tower, New York City, NY

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Richard Doornink, Managing Director, Kemper System America

### View from the top World-class waterproofing

Whether a building is old or new, one story or 101, a roofing decision has long-range consequences for occupants, building managers and owners, even if a building changes hands. And for any specifier, when reputations are at stake, "built-to-last" performance is key.

Architects often think about structures in terms of the interior spaces they create, and even though roofs may not be visible from the ground, the most important space they create may well be 'peace of mind.' Perhaps that is one reason why Kemper System America is so often specified on marquee projects from Massachusetts General Hospital and the U.S. Capitol building to the Ottawa Airport and most recently to the tallest building in Arizona and One World Trade Center, the tallest building in the Western hemisphere. (See separate stories in this issue.)

#### Reputations matter

Kemper System has been a global leader in cold, liquid-applied, reinforced roofing and waterproofing technology for over 50 years, having invented the technology and holding the first patents. Kemper System America manufactures in the U.S. in West Seneca, N.Y., also the site of our headquarters.

We are also an industry leader in odor-free systems and offer membrane waterproofing systems that can address almost any project, any challenge, including multiple penetrations and difficult architectural elements. And we now offer a new all-in-one solution for 'Cool Roofs' to help manage building energy from the top. (See story p. 6.)

Specifiers don't have to be working on a world-class building to capitalize on world-class roofing/waterproofing systems. Ours are designed to "stand the test of time," and like a good watch, Kemper System America means quality.

# Market leadership

## Freedom Tower (continued)

For the main roof, insulation and pre-primed cement board are first installed and adhered with beads of foam adhesive. The cement board is staggered in a joint pattern over the insulation and sealed at the seams with beads of NP1 polyurethane sealant. The seams of the cement board are also sealed with 4-inch continuous stripping plies of KEMPEROL.

The KEMPEROL resin membrane was specified for the main roof and louvre areas on lower floors that are enclosed on three sides. The liquid-applied resin membrane systems are reinforced with KEMPEROL 165 fleece and can conform around any shape. Penetrations, drains, curbs and perimeters are also sealed with the system and then overlapped by the membrane in the larger expanse to provide durable waterproofing protection.

The work on the main roof membrane began in mid-June 2014 and was completed in mid-October. At nearly one-third of a mile high, the roof weather could be a surprise. "A lot of times when it was a cloudy day on the ground, it could be foggy. Or if it was foggy on the ground, it could be raining when we got to the top. But the heat was not too bad, and there was no sweltering hot weather."

## Getting there

One obvious challenge in waterproofing a high-rise is simply getting materials to the roof. "By the time we got to the roof, the outside hoist had been taken down, which might have saved a little time," Guarino said. "But with the KEMPEROL system, there's no heavy equipment, so we were OK. The heaviest tool we used was a hand mixer for the resin."

The trek to the 105th floor could take up to two hours because of all the trades on the site. The Jobin Organization crew would bring materials up through the building on the elevator cars, many times on Saturdays and Sundays to have all the required materials ready to go.

"We would take materials from the loading dock to the main floor elevators, up to [floor] 102, and then transfer to 105. The insulation and cement board were loaded on 4 ft. x 4 ft. skids and some stored on 104 during the job." Also easy to transport, the KEMPEROL resin comes in 2.5 and 5 gallon buckets, and the fleece reinforcement on rolls up to 41 inches wide.

## Job-site coordination

Kemper System specialists were on-site weekly to inspect and advise on the job. In addition, a building envelope consultant photographed progress daily to provide feedback to the A/E/C management team. "Our goal every day was to make it watertight."

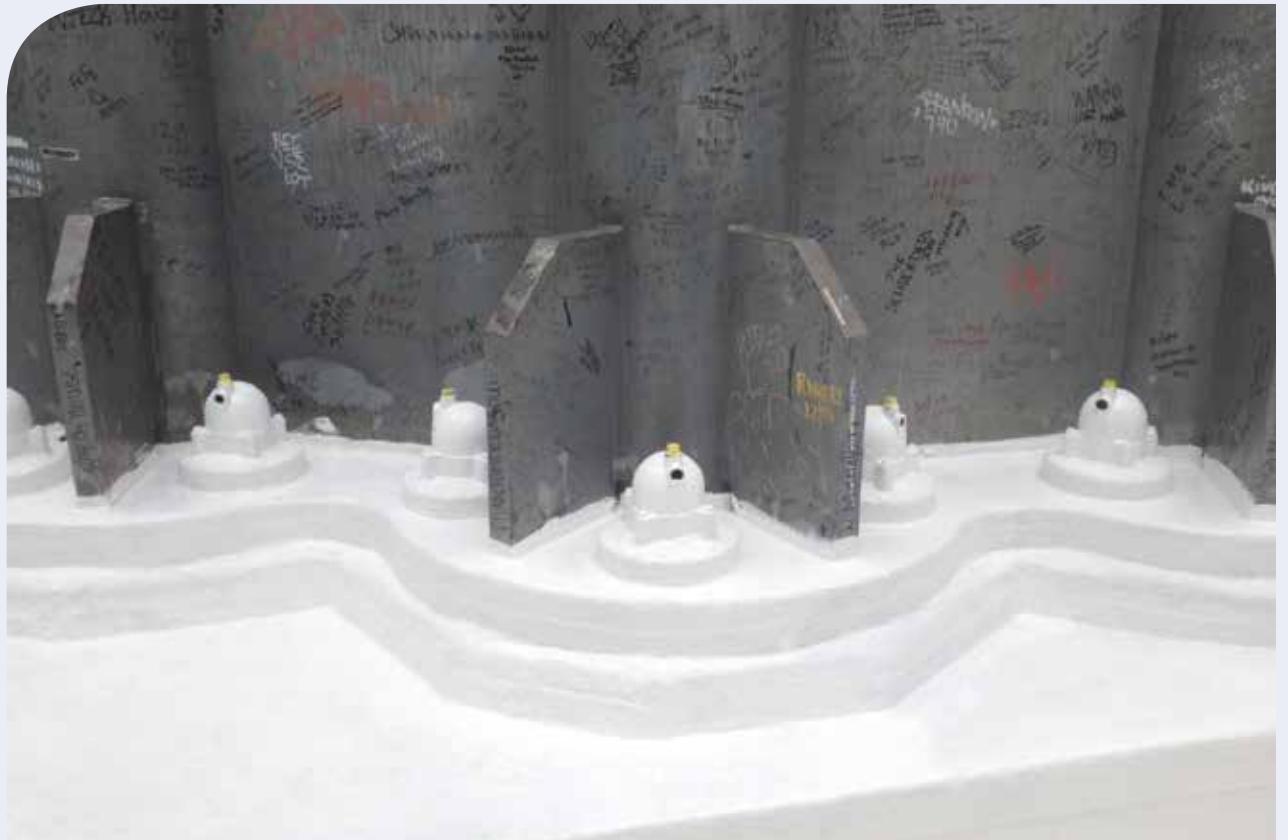
There were conversations with the management consultants every morning to make sure everything was running smoothly, Guarino said. But there was no cell phone service available on the roof during construction because of the thickness of the slab, so more urgent messages were often relayed a couple of floors down the old-fashioned way – by walkie-talkie.

"The biggest challenge was coordination on the job site. There were a lot of trades there at the same time, so we had to constantly clear people out of the way. The deck needed to be prepared ahead of us. The concrete was too rough in some areas. Overpours needed grinding and debris removed, or grease needed to be cleaned off.

"There was also a crew working above us on the cooling towers, so we needed to inspect if any areas had become wet before the membrane was cured. When things happened, the Kemper System made it possible to redo or repair small areas," he said.

## From the ground up

The waterproofing story at 1 WTC really began at the ground floor, or actually more than 30 feet below it. The Jobin Organization originally submitted bids on the 1 WTC project with Kemper System America circa 2004.



Huge bolts at the base of the spire were among hundreds of exposed roof details protected with the KEMPEROL® waterproofing system.



The square area at the base of the spire is surrounded by a three-story framework for mechanical equipment inside the communications platform ring.



What appears to be a simple white coating is actually the top layer of the Kemper System. The KEMPEROL® membrane is fleece-reinforced and forms a seamless surface that is unaffected by standing water, snow or ice. It also resists chemicals and corrosives, and UV light.

Following the resolution of project design and financing issues, construction finally got underway in the spring of 2006. Ironworkers erected the steel at a fairly steady pace, though heavy winter storms dampened the pace toward the end. Every tenth floor required temporary waterproofing with EPDM sheet and caulking until a new slab, ten stories above, could be poured. Skyscraper cranes would lift bundles of steel and pallets of materials from the ground up or from one completed section to the next. Month after month, the arm would swing from the outside frame of the building, and deposit bundles stories above.

The outside frame of the Tower is very slightly tapered with a notch in at several floors as the shaft rises skyward. The Jobin Organization crew waterproofed the roof perimeter and exposed steel at these levels as well as the top three floors of the main roof – 103 to 105 – which are exposed to the elements.

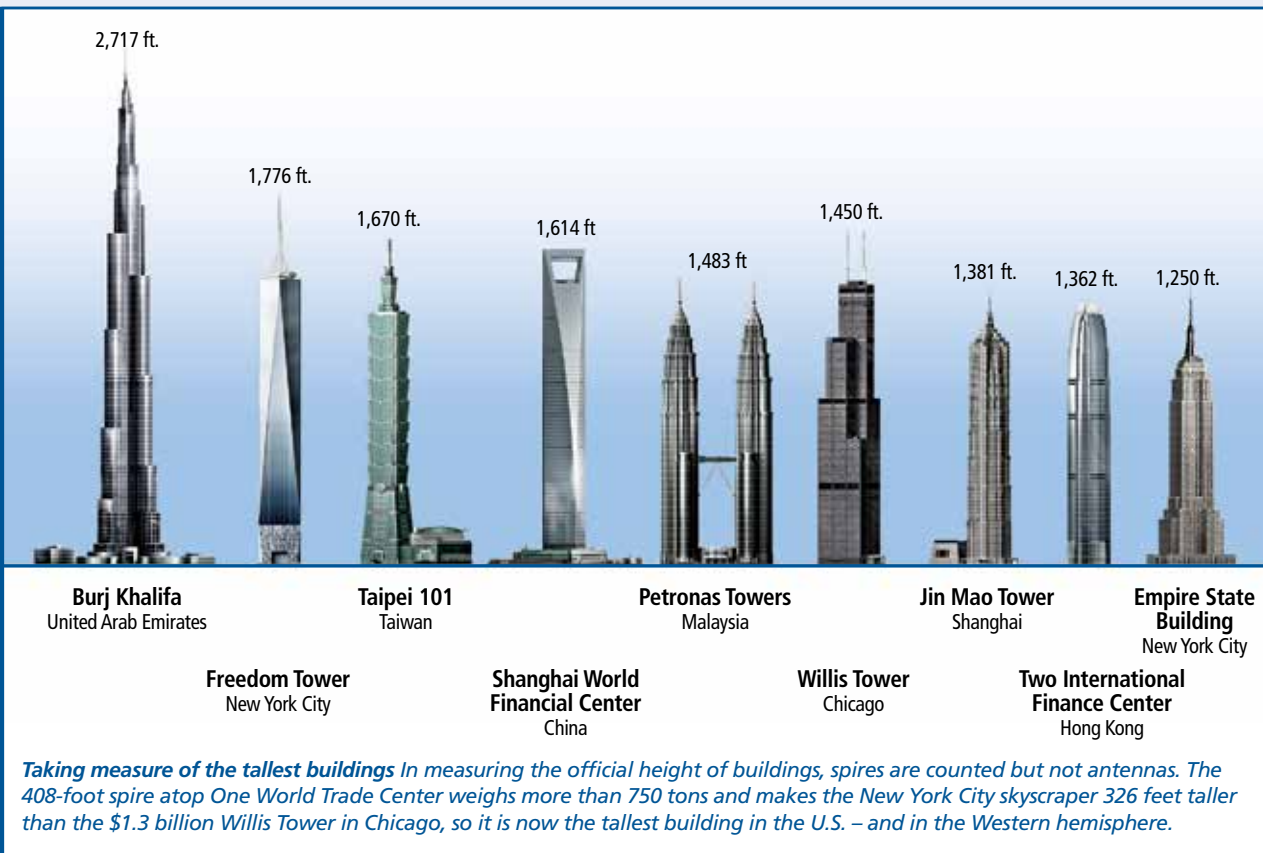
### Sustainability

KEMPEROL 2K-PUR resin system is 80 percent from renewable materials, which fit with the overall design goals for the project. Nearly 75 percent of 1 WTC is made

from recycled or eco-friendly building materials, and the building's green design earned LEED Gold Certification.

**One World Trade Center**  
**Building owner:** Port Authority of NY/NJ  
**Architects:** David Childs, Daniel Libeskind (2002)  
**Main contractor:** Tishman Construction  
**Project A/E firm:** Skidmore Owings & Merrill LLP  
**Roof waterproofing installer:** The Jobin Organization  
**Products used:** KEMPEROL® Reinforced Membrane

- Burj Khalifa – 2,717 ft.**  
United Arab Emirates (2010)
- Freedom Tower – 1,776 ft.**  
New York City (2014)
- Tapei 101 – 1,670 ft.**  
Taiwan (2004)
- Shanghai World Financial Center – 1,614 ft.**  
China (2008)
- Petronas Towers – 1,483 ft.**  
Kuala Lumpur, Malaysia (1998)
- Willis Tower – 1,450 ft.**  
Chicago (1974)
- Jin Mao Tower – 1,381 ft.**  
Shanghai (1999)
- Two International Finance Center – 1,362 ft.**  
Hong Kong (2003)
- Empire State Building – 1,250 ft.**  
New York City (1931)



## Reroofing the tallest building in Arizona: From monsoons and sleepless nights, “peace of mind”

Monsoons and flooding are not terms most people associate with Arizona. But both loomed large in reroofing a 483-foot office tower in Phoenix, the tallest building in the state.

Those who live in the Phoenix area know the “heavy monsoon season” more for wind and lightning storms than rain, but in 2014 the period from early June to late September turned out to be one of the wettest monsoons on record. As with many projects, the approval process took longer than originally planned. But in this case, the monsoon season was when the green light came for the KEMPEROL® 2K-PUR cold liquid-applied reinforced membrane system.

“Most of the storms during monsoon season come during the evening, so we were really more concerned with the humidity in the air, which doesn’t agree with cold liquid-applied systems very well,” says Project Manager Scott Kukkola of Progressive Roofing, headquartered in Phoenix.

Humidity was one of the main challenges on the project, which Kukkola calls the toughest of his 30-plus year career. But to address the challenging areas of the roof, he says, Kemper System was “the right call, and the right product.”

### Avoiding a nightmare

In fact, there are multiple roofs at the top of the tower, and Joe Parenza of FBE Products Inc. in Phoenix, matched the roofing / waterproofing products to meet the conditions of this prominent feature on the Phoenix skyline. As he explains:

“When I visited the site for the first time, there were three decks where I envisioned utilizing a traditional SBS modified bitumen membrane roof with tapered insulation to generate slope. The flip side is there were two decks that were going to be extremely challenging.

“The first is the 3,000-square-foot chiller area on Floor 39 where two enormous chillers are responsible for heating and cooling the entire 740,000-square-foot, 43-story building. The second was the 40th floor roof which had multiple penetrations for the window-washing equipment tracks and was experiencing leaks.

“The intricacies of the network of steel piping for the chillers that took up most of the area that weaved in and out with almost zero clearance was the most challenging part of putting a waterproofing system together that would give the building owner 100% peace of mind. Accompanied with a dead-level concrete deck, and the fact that these chillers have to be backwashed at least once a month where the entire roof area is flooded as deep as 4 inches for days at a time, made this area an asphalt roofing system nightmare.”



(continued on Pg. 4)

# Market leadership

Arizona building (continued)

## Dead-level deck, roof flooding, multiple penetrations: "Kemper was a perfect fit for these conditions."

"As I introduced the Kemper system to the [building management team] and we proceeded with specifications and bids, we ran into contractors trying to deviate from my plan. This forced the owner to either raise the height of the chillers and network of pipes at an additional cost of about \$1 million – or use a substandard product with a rider added to the warranty to accept ponding water."

### Pushing through monsoon season



*Progressive Roofing was able to apply the reinforced membrane even under this approximately 2 ft. diam. pipe (shown here before) by rolling out the reinforcement layer with one edge in parallel to the pipe, and brushing under with the liquid membrane topcoat. The clearance under the pipe joint cover is only about 3/16 of an inch.*

*Low clearance conditions were not a problem for the KEMPEROL® 2K-PUR system.*

Installing the Kemper system in the face of monsoon season created new scheduling issues and meant that uncertainties about relative humidity (RH) needed to be addressed. This was in addition to other conditions that arose during demolition, like spalled areas, concrete "skulling," and a series of iron beams peeking through the deck surface.

The goal was to complete the project in 90 days, project manager Kukkola recalls.

The existing bituminous roof, which had been in place for more than 20 years, could not be removed during regular business hours because of the noise. "We did all the demolition at nighttime, and the daytime was when we started putting down the cold liquid system," he says. This meant multiple crews, typically of 8, with some crews on standby, and working virtually around the clock as weather would permit.

### Deep dive

The issue with humidity turned out to be more than "skin deep" and required the team to "dig deep" to overcome. To key adhesion over the existing concrete and repaired areas, a primer was recommended. To avoid blistering, Progressive continuously tested core samples to determine moisture retention levels in the concrete deck. Two different primers were considered, KEMPEROL® EP 5 and a urethane primer from another manufacturer. However, the retained moisture levels of the slab exceeded recommended levels for both.

Surface preparation is critical for any coating-based system, and a solution was not



*Around The liquid membrane system can easily waterproof around curbs, roof drains and protrusions.*

immediately apparent. "After several meetings with the building owners, engineers, architects and consultants, we went back to Kemper System. They recommended applying two layers of their primer with their sand mixture and waiting to see if the moisture tries to breathe up and cause blisters. On that section, it did not," Kukkola says.

The Progressive Roofing crew worked in sections. "As one section of the roof was removed, the primer was put down to keep everything watertight at the end of the day." The cure time on the KEMPEROL primer is about 24 hours, and all sections were primed before the KEMPEROL® 2K-PUR liquid resin was applied. "The first area sat for four days without any blistering."

### Up, under, around

The ability of the KEMPEROL 2K-PUR system to overcome a variety of obstacles made it the ideal choice for addressing problems both seen and unforeseen. The basic application is straightforward but requires Kemper System certified applicators and teamwork.

**Up:** Because backwashing the chillers would flood the roof up to 4 inches deep, the KEMPEROL 2K-PUR reinforced resin waterproofing system was applied at least 8 inches up the vertical sides of penetrations, curbs and perimeter walls.

**Under:** Kukkola described the installation of the system for the roof area with the low-clearance horizontal piping. "Once we put down the liquid [resin system], we rolled out the [polyester fleece reinforcement] immediately because you have to put it into the liquid form of the coating. So multiple people were working on each end of the roll. We rolled it out the length of the entire deck area, and then we slid that fabric underneath the pipe, parallel with the length of the pipe. The fleece was skinny enough that you could put the edge of it through."

The gap between the 12- to 18-inch piping and the roof was only about half an inch in places. Following the fleece rollout, the KEMPEROL 2K-PUR resin topcoat was applied to the fleece with rollers, and brushes where needed, to complete the reinforced membrane system.

**Around:** For the iron beam protrusions, Progressive Roofing first tried cutting and grinding to bring them down to deck level. A change of scope was needed when that was unsuccessful. "We ended up building a curb around them," Kukkola says.

The curbs were built with 2x4s and plywood and encapsulated with the KEMPEROL



*The 40th floor catwalk required waterproofing around multiple posts (visible under the yellow frame at left).*

2K-PUR system. Inside the curb, the team applied multiple layers of insulation and primer mixed with aggregate over the concrete. The sand strengthens the primer and helps the coating expand and contract. "We basically filled that entire curbed area, and then encapsulated the curb with the Kemper system," he explains.

### The takeaway

"We started in August and met the goal to complete the project in 90 days, despite the obstacles – the shutdown times and many days we lost because of the rain."

**Building architect:** Ramirez Architects, Inc.

**Sales consultant:** FBE Products Inc.

**Roofing contractor:** Progressive Roofing

**Kemper System products used:**

- KEMPEROL® EP 5 primer, with aggregate as needed
- KEMPEROL® 2K-PUR reinforced membrane system

FBE Products is an independent manufacturer's representative organization that has been servicing the state of Arizona since 2005.

Progressive Roofing is a family-owned roofing contractor that has been offering high quality services since 1978. Based in Phoenix, the company has regional offices throughout the U.S. to effectively service clients nationwide.

# Cold liquid-applied membrane systems perfectly comfortable in Canadian cold

In Canada, the temperature performance of exterior waterproofing materials is a basic consideration. Roofing, in particular, must take a pounding in the summer heat as well as the sun, snow and frigid temperatures of winter.

Freeze-thaw cycles pry open crevices in and between these and other building materials, especially around metal flashings, joints and drains. Rubberized or bituminous materials, caulk and sealants are often the first to shrink and crack. Shingles and flashings can loosen and fly away. And the snow and ice that piles high in winter can pond on roofs in the spring when water damage often first becomes apparent.

Kemper System Canada has addressed these needs since it was first established and is continuing to expand its distribution. During the past two years, KEMPEROL® cold liquid-applied reinforced membrane systems have continued to prove valuable in harsh Canadian conditions – including for projects such as those profiled below.

Chris Hunter, who joined Kemper System Canada as Eastern accounts manager in 2014, is making sure that value is recognized, and that products are readily available and supported with distribution and sales from the Atlantic provinces to British Columbia. As Certified Technical Representative (CTR), Certified Construction Contract Administrator (CCCA) and Registered Roof Observer (RRO), he is helping to educate building owners, architects and consultants about the products, where they fit and where they may offer unique advantages.

## “We are working to develop a new understanding of cold liquid-applied systems.”

– Chris Hunter, CTR, CCCA, RRO

Kemper System products can align well with specifications for publicly bid projects, Hunter says. “But we also can offer a combination of advantages that competitive products may not have. A lot is temperature related, but not all. The Kemper System reinforced roofing and waterproofing membranes can often go where other products can’t, or certainly not as easily.”



**Shell Oil** (above) In 2014, KEMPEROL® 2K-PUR system proved effective for reroofing Shell gas stations / convenience stores at pilot locations in Ontario. Hunter worked with the Shell facility manager to scope out the project, define specifications and identify certified applicators. “Odor-free, health and safety were important considerations,” Hunter says. Contractor: Flynn Canada Ltd. (Mississauga)



**Desjardines Financial** The main roof of this high-profile project in downtown Mississauga is 10,000 square feet. “The owner wanted Kemper System and a long-term warranty,” says Hunter, who specified full roof waterproofing with the KEMPEROL® 2K-PUR reinforced resin membrane system. A solar array was installed on the roof using platform supports. Contractor: Triumph Inc. (Toronto)

KEMPEROL® liquid-applied systems are ideal for full roofing, especially jobs with multiple penetrations, as well as for many specialized waterproofing applications, such as green roofs, blue roof rainwater detention systems and white reflective roofs. (See “Cool Roof” story in this issue.) “These are not single-ply or waterproofing paint, but reinforced resin membrane systems designed for extended life.”

Hunter points out that Kemper System pioneered cold liquid-applied reinforced resin membrane technology more than 50 years ago, and the technology is well proven in the colder climates of Europe and the U.S.

Kemper System membranes can be applied in cool temperatures, and even to cold surfaces following manufacturer recommendations for the specified system. For best results in cooler temperatures, the liquid resins are stored and acclimated at room temperature prior to application. (See Kemper System Product & Application Guide for details.) A temporary tent can also be erected over some job sites, and heated if necessary, so work can proceed in wet or cooler weather. (See profile on the University of Michigan reflecting pool in the last issue of The Pinnacle.)

## A winning combination for Canada

A few advantages of the best-selling KEMPEROL® 2K-PUR reinforced membrane system:

- Ultra-low VOC resin system made 80% from renewable materials.
- Both solvent-free and odor-free (especially important for installers and building occupants).
- Fleece-reinforced resin membrane is seamless and self-flashing.
- Unaffected by ponding water, and resists UV light, roots and biodegradation.
- The system fully adheres across the surface and can fill minor gaps and crevices.
- Ideal for sealing multiple penetrations and architectural details such as skylights.

**GTA Wind Turbines** (below) The foundation of this turbine is one of several at a budding wind farm for Ontario Hydro in Orangeville. The reinforced concrete was waterproofed with the KEMPEROL® 2K-PUR membrane system in 2014. This followed turbine waterproofing for a wind farm in Quebec the previous year. Contractor: Bothwell-Accurate Co. Inc. (Mississauga)



# Bright, white and watertight... New liquid-applied 'cool roof' helps boost building efficiency

Kemper System, the originator of cold liquid-applied reinforced roofing membrane technology, is introducing a new 'cool roof' system to help keep air-conditioning demands in check. The bright white surface of KEMPEROL® Reflect 2K FR can dramatically reduce the impact of infrared (IR) rays on building cooling systems.

The new system shares many of the same advantages as Kemper System America's best-selling KEMPEROL 2K-PUR cold liquid-applied membrane system. It is easy to apply, fleece-reinforced and designed for extended life. It's also low-VOC, solvent-free and odor-free, especially important for occupied buildings.

Yet KEMPEROL Reflect 2K FR offers some unique advantages. It dries to a highly reflective surface which can reduce labor costs since no additional reflective topcoat is needed to meet LEED 2009 v4 Sun Reflective Index (SRI) requirements. In addition the sun-reflective reinforced resin membrane is fire-rated for Class-A roofing assemblies and offers superior UV resistance and color stability. The high reflectivity also helps reduce the urban heat island effect.

"KEMPEROL Reflect 2K FR helps satisfy the need for more sustainable solutions that are better for the planet and can dramatically reduce building cooling demands. The sunnier and warmer the climate, the bigger the potential savings," says Richard Doornink, Managing Director, Kemper System America. The company's sales and distribution network extends across the U.S., Canada and Mexico.

The new system is ideal for new or existing main roofs, but it can be applied over almost any exposed surface. "KEMPEROL Reflect 2K FR is an 'all-in-one' system, manufactured to high-quality standards and will be preferred especially for expansive roof areas and whenever a fire-rated system for 'Class A' assemblies is required."

The company's flagship roofing membrane system, KEMPEROL® 2K-PUR, will still be the better choice for green roofs and other buried applications, as well as for balconies, terraces and other outdoor areas that require a non-reflective or slip-resistant finish, a traffic coating or a decorative color. But if it's sun-exposed, think KEMPEROL Reflect 2K FR first.

"Our reputation for quality, technical support and customer service are why customers keep coming back to us, and they've been telling us they really want a cool roof. We listened, and now can give them the full package," Doornink says.



**The buzz about cool roofs** Architects, building owners, and roofing contractors will see print and digital ads about the new 'cool roof' from Kemper System America in select trade publications. In addition, the company is spreading the word about the advantages of cool roofs in AIA-credited seminars, including one at the 2015 AIA Expo. The 2015 presentation was fully booked more than a month in advance.

## 'Cool roofs' and sustainability

Cool roofs can contribute to sustainability goals by reducing building energy demands and by reducing the urban heat island effect since they reflect infrared rays. In general, they can also help reduce global warming by reducing the burning of fossil fuels

**Of the more than 4 billion kilowatt hours of electricity generated in the U.S., about 67% is from fossil fuels (coal, natural gas, and petroleum).**

*Source: U.S. Energy Information Administration, 2014 preliminary figures.*



## Sales meeting

### The march to maximize value

Through an expanded sales, distribution and technical support network, Kemper System extends the value of its world-proven, cold liquid-applied reinforced membrane systems to specifiers, building owners and managers across the U.S., Canada and now Mexico. That value can also extend from the specification process to installation and customer support.

At the annual sales meeting, the team reviewed new product and market developments – and best-in-class approaches to difficult roofing / waterproofing challenges. "Our technology can satisfy a wide range, but our professionals can really make the difference in building maximum value," says Managing Director Richard Doornink.



#### **Boots on the Ground**

##### **Top Row:**

Joe Hoekzema, Roland Wieth, Brian McGuire, Krzysztof Dobrzanski, Eugene Wasiak, Jim Fell, Braeden Kleven, Chad Brickner, John Fotopoulos, Aaron Wood, Steve Crone

##### **Middle Row:**

Rick Brill, Brian Kelly, Fred Day, Graydon Cox, Victoria Rusin, Tim Sullivan, Katie Lehman, Jay Strother, Kathy Courteau, Ed Umbreit, Tom Martinelli, Brad Johnson, Nicole Hillard, Larry Price, Bill Spencer, Gino Soroker, Duane Zitkovic, Martin Hernandez, Carson Braswell

##### **Bottom Row:**

Gina Cali, Mike Ennis, Corrin Bittner, Christian Schaefer, Holger Freyaldenhoven, Andreas Wiggenghagen, Richard Doornink, Brett Steinberg, Jerry Gudenau, Jim Arnold, Charlie Appleby, Chris Hunter, Jeff Younger

## Best-of-Year Award winners

Please join Kemper System America in congratulating our "Best of Year" award winners for outstanding performance in 2014.



### Elite Contractor of the Year:

Jasen Geraghty and Paul Losito of Skyline Restoration



### Kemper System Sales Person of the Year

Steve Crone of Kemper System America



### Distributor of the Year:

Muhammad Iqbal, Allied Building Products, Long Island City branch



### Independent Representative of the Year:

Eric Johnson and Braeden Kleven of KR Kline

## Just a click away on ARCAT.com

Kemper System America product information is now available on [ARCAT.com](http://ARCAT.com) and the ARCAT app, including complete CSI 3-part architectural specs. Also find catalogs and brochures and application videos. No registration is required. Search "Kemper System" and download.

ARCAT is the leading online resource of FREE building product information.

*Note: Kemper System is not partnered with ARCAT.*



## Project Tracker

### In Progress

- Brooklyn Public Library, NY
- Bronx Zoo, NY
- Rikers Island Facility, NY
- Moynihan Station, NY
- University of Iowa, IA
- University of Michigan, MI
- MIT Chapel Moat, MA
- Kellogg School of Management - Northwestern University, IL
- Royal Botanical Gardens, Ontario
- FAA TRACON Merrimack, NH
- Fletcher Hospital, VT
- 120 Glass Building, FL
- Grove at Grand Bay, FL
- Ski Condominiums, CO
- Utah State Historical Building, UT
- Whole Foods Market, LA
- Bush Intercontinental Airport, TX
- 121 Golden Gate, CA
- Alexandria Condominiums, WA
- National Cemetery Welcome Center, VA
- Ericsson, NJ
- Hilton Grand Vacations, SC

## 2015 Trade Shows

### Learn more about 'Cool Roofs' at AIA, May 14-16, Booth #1717

Kemper System America is putting the spotlight on reflective roofing at 2015 trade shows. At AIA, National Design & Specification Manager Brian Kelly is presenting a new AIA-credited seminar, "Sustainable Roofing Strategies: Fighting the Effect of Urban Heat Island."



Above: Kemper System's new 20 X 20 exhibit with high-impact graphics debuted at IRE 2015.

Left: Brian Kelly narrates a product demonstration by Roland Wieth at the International Roofing Expo in February.



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