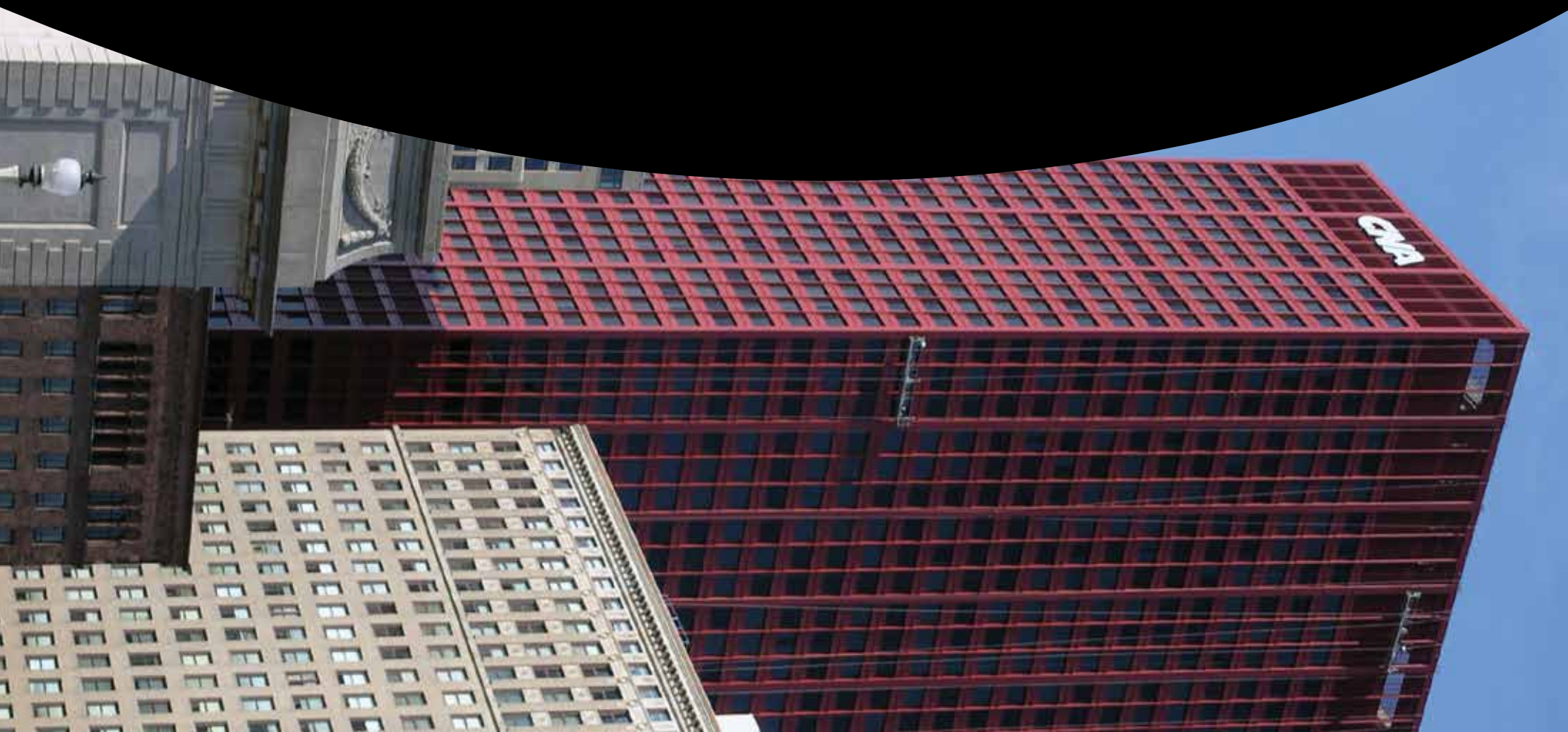
Fluoronar

TNEMEC

FOR A LASTING IMPRESSION

COAT WITH BRILLIANCE



CNA CENTER – CHICAGO, IL

For the best available life expectancy, the CNA Center's owner selected a coating system from Tnemec, which featured Fluoronar. After a mock-up of the Tnemec coating system proved to offer the best adhesion and color and gloss when compared to other coating systems, Fluoronar was selected, and a custom color was created to achieve the look the owner wanted. The 1.3 million square-foot tower stands out among the Chicago skyline thanks to its long lasting fluoropolymer topcoat from Tnemec.

COAT WITH FLUORONAR

With beautification and protection in mind, Tnemec developed Fluoronar, a premium fluoropolymer topcoat for unequalled aesthetic stability and long-term protection. Comprised of an advanced fluoropolymer resin and specially selected additives and pigments, Fluoronar ensures color and gloss retention for spectacular architecture. For an impression that can last decades, Fluoronar is specified for its proven durability, color options and ease of application.

Fluoronar is the most advanced thermoset solution fluoropolymer in the industry. It is the ultimate coating that provides the look architects and building owners want. For new construction, the rehabilitation of aged buildings or as a finish coat for hard to access areas including curtain walls, roof panels, louvers, doors and window frames, Fluoronar can transform structures. It is the premier coating for high performance architectural and industrial maintenance applications.

Fluoronar, like all of Tnemec's products, is backed by unequalled support. Actively involved in the coatings industry, Tnemec coating consultants have the experience and knowledge to assist customers with customized system recommendations that ensure the best long-term results. And Tnemec's coating consultants are backed by some of the most knowledgeable technical service representatives in the industry.

right: Great American Tower
Cincinnati, OH

FLUORONAR BENEFITS

- Unsurpassed color and gloss retention
- Excellent protection and durability
- Easy application — brush, roll or spray
- High solids and excellent coverage rates
- Avoids skips in finish common with clear coat applications
- Easy to touch-up and repair
- Available in virtually any color
- Available in gloss, semi-gloss, satin and metallic finishes
- Product is readily available and manufactured within standard lead time
- Low-VOC formulations available

right: Boulevard Bridge
Topeka, Kansas

PREMIUM INGREDIENTS FOR A PREMIER FINISH

As a premier finish, Fluoronar contains only the best resins, pigments and additives, which leads to unmatched stability and UV resistance. It also has brilliant color options, making it perfect for architectural accents such as metal awnings, decking, window details and sculptures — as well as general broad surface coverage. Fluoronar offers exceptional long-term value, making it excellent for landmark projects and areas where maintenance painting is expensive and prohibitive. Available in gloss, semi-gloss, and satin, as well as metallic finishes, Fluoronar resists chalking, fading and weathering for decades.

FIGURE 1: COLOR CHANGE (WHITE)

QUV Exposure (ASTM D4587)

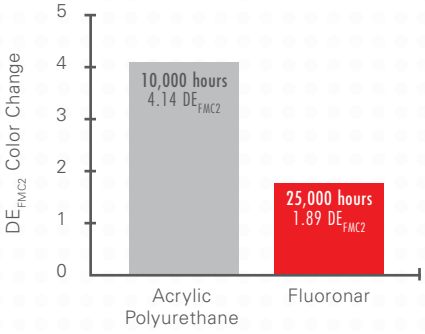


FIGURE 2: GLOSS RETENTION (WHITE)

QUV Exposure (ASTM D4587)

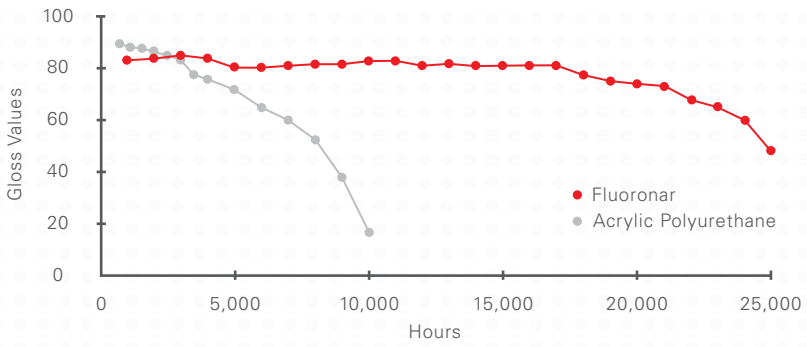


FIGURE 3: COLOR CHANGE (WHITE)

EMMAQUA Exterior Exposure (ASTM D4141)

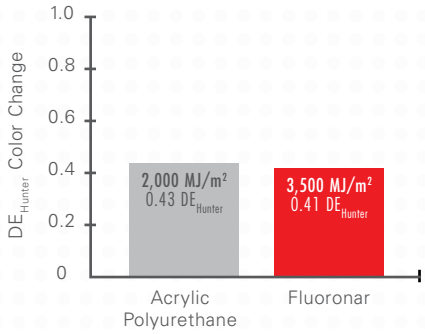
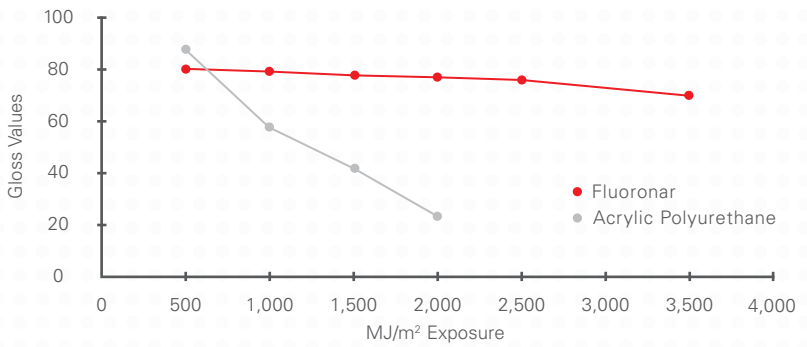


FIGURE 4: GLOSS RETENTION (WHITE)

EMMAQUA Exterior Exposure (ASTM D4141)



FLUORONAR VERSUS ACRYLIC POLYURETHANE **Figure 1** As illustrated on this graph, Fluoronar showed far less color change after accelerated QUV exposure at 25,000 hours than a standard acrylic polyurethane measured after only 10,000 hours. **Figure 2** This graph demonstrates that the gloss retention readings after 5,000 hours of QUV testing on a standard polyurethane showed a dramatic drop while, in comparison, Fluoronar showed no sign of a significant decrease until after 20,000 hours. **Figure 3** After testing for color change at 3,500 MJ/m² in accelerated EMMAQUA testing, Fluoronar showed slightly less change than a standard acrylic polyurethane after 2,000 MJ/m². **Figure 4** As demonstrated in this graph, the gloss retention of a standard acrylic polyurethane began to decrease greatly after 500 MJ/m² of EMMAQUA testing, while Fluoronar holds steady until 3,500 MJ/m² where it only begins to decrease slightly.

VERIZON COMMUNICATION HEADQUARTERS – NEW YORK, NY

Chosen for its extended maintenance cycles, Fluoronar was utilized as the topcoat for the 2004 renovation of the 30-story headquarters building for Verizon Communications in New York City.

Like most high-rise buildings, this structure, which is located in the heart of busy Manhattan, can be difficult and expensive to access for repainting and maintenance. A coating system featuring Fluoronar allows the building to continue to appear clean and fresh, and will keep it from needing a costly repaint for many more years.

GEORGIA DOME – ATLANTA, GA

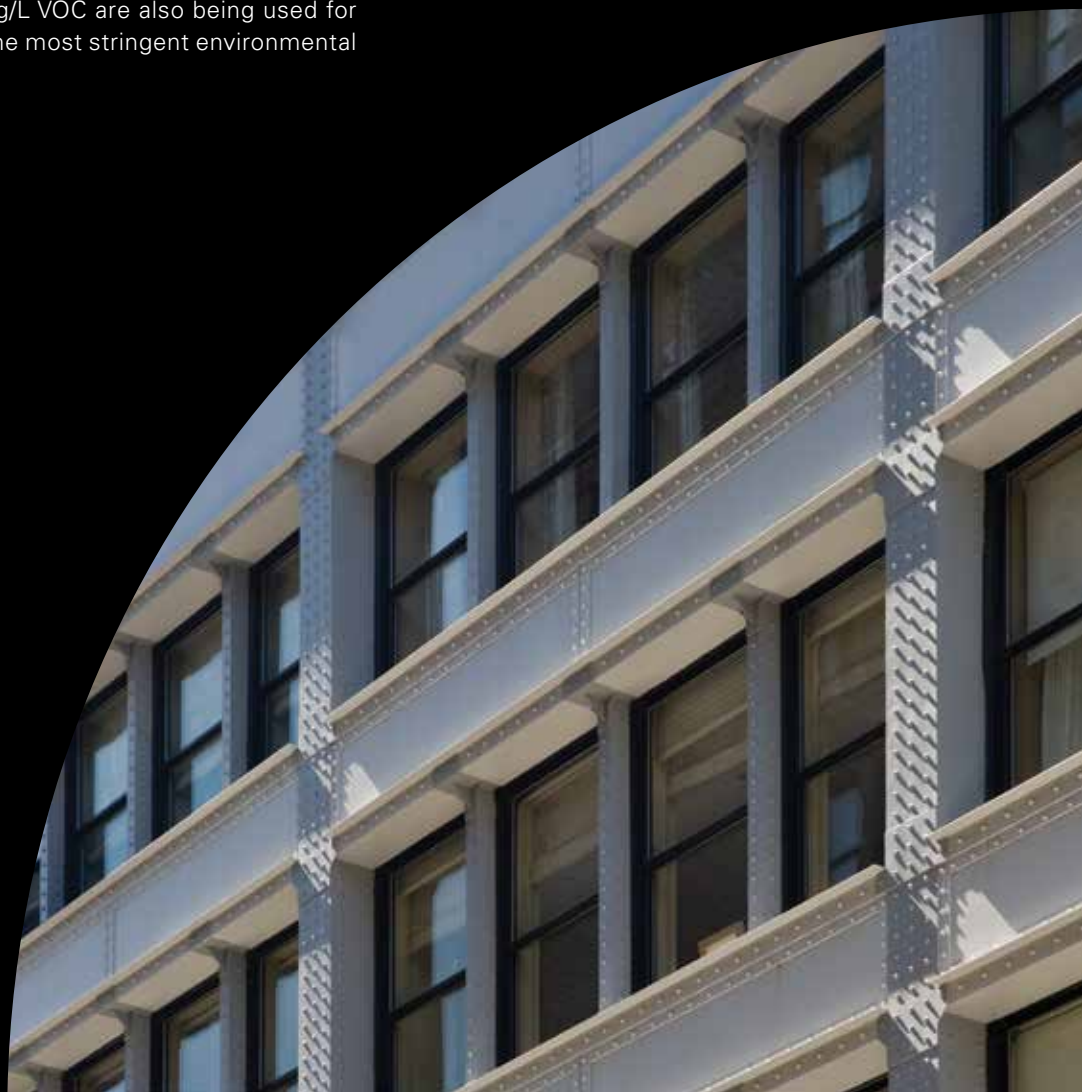
When Atlanta's Georgia Dome required a bold new color scheme for its exterior, the project presented the perfect opportunity for a premier coating system featuring Fluoronar. Fluoronar was chosen for its user-friendly application characteristics, outstanding color and gloss retention, and strong adhesion to aged coil-applied coatings, which were previously used on the stadium.

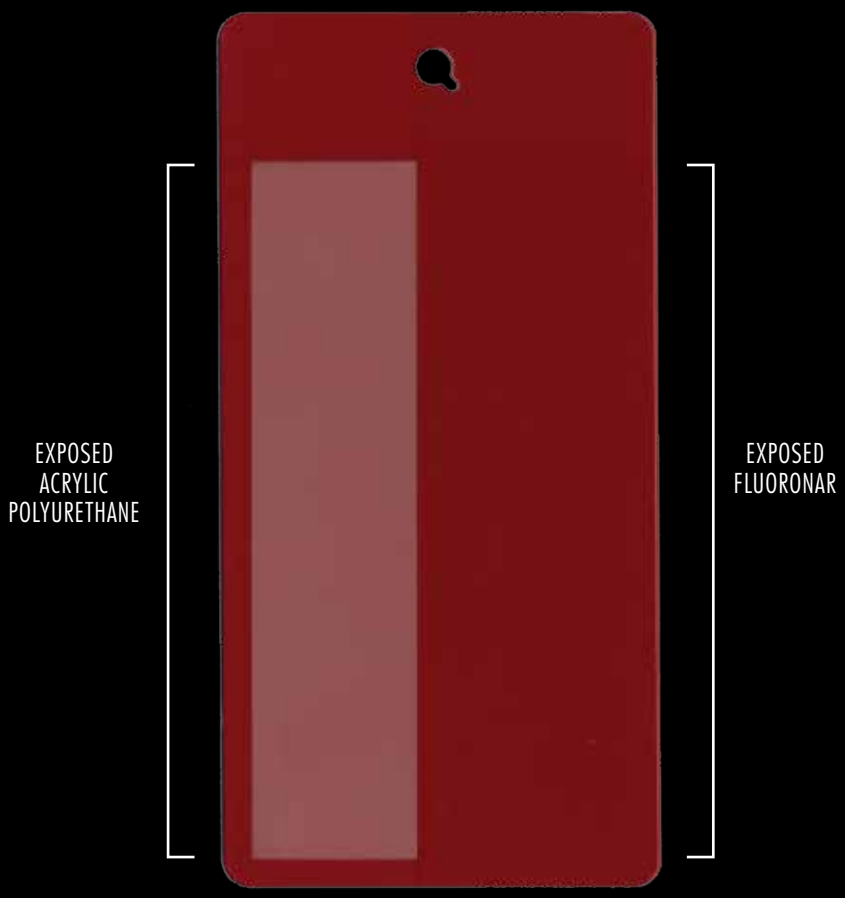
RESTORE WITH FLUORONAR

Around the world, architects and building owners are rediscovering the merits of refurbishing aging structures, and Tnemec's Fluoronar is helping them do so. The high-performing fluoropolymer helps transform outdated buildings into state-of-the-art spaces with enhanced functionality and aesthetics, all while preserving their unique character.

This trend is evident in school districts, retail centers and office buildings where life-expectancy is being increased by decades. Coil-coated panels installed several decades ago are being refurbished with field-applied Fluoronar from Tnemec. Aged structural aspects of these buildings are also being updated with environmental considerations in mind. Fluoronar can be manufactured using infrared-reflective pigments, which when applied to metal roofing aids in lower energy costs by decreasing heat gain. Low-VOC versions of Fluoronar with less than 100 g/L VOC are also being used for refurbishment to meet even the most stringent environmental standards.

right: 107 Greene Street
New York, NY





This panel demonstrates the difference in aesthetic topcoat performance between an acrylic polyurethane (left side) and Tnemec's Fluoronar (right side) after 10,000 hours of QUV testing.

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INNOVATION IN EVERY COAT™

Tnemec Company Incorporated 6800 Corporate Drive Kansas City, Missouri 64120-1372 1-800-TNEMEC1 Fax: 816-483-3969 www.tnemec.com