



# FLUOROPOLYMERS MAKE MODERN INFRASTRUCTURE AND CONSTRUCTION POSSIBLE



Fluoropolymers are a specialized, high molecular weight group of chemistries that play an invaluable role in the specialized coatings used in infrastructure and construction (I&C) applications. Among countless industries that require the highest performing materials to compete globally, fluoropolymer-based coatings are irreplaceable due to their unique combination of properties and exceptional benefits.



The Performance Fluoropolymer Partnership (PFP) [developed a white paper](#) illustrating the wide range of applications where fluoropolymers in surface coatings play a critical role in I&C.

## Key Fluoropolymer End-Uses in Infrastructure and Construction



Water Towers



Roofing and Roofing  
Structures



Building Facades,  
Frames, and Panels



Bridges and Walkway  
Structures



Solar Panels

## Exceptional Benefits

The exceptional combination of benefits that fluoropolymers provide in I&C applications include:

- Superior flexibility
- Improved wear and impact resistance
- Increased color and gloss retention
- Superb weather resistance
- Increased thermal stability
- Significant fire retardancy and smoke suppression
- Fire retardancy and smoke suppression
- Low refractive index for optical effects
- Reduced dirt collection
- Reduced maintenance
- Enhanced service life



## Progressing Sustainability in the Built Environment

Fluoropolymers used in I&C applications can help builders and property owners reach goals and commitments related to environmental sustainability, renewable energy, and reduction of greenhouse gas emissions.

- Lower emission of volatile organic compounds (VOCs)
- Lower energy demand
- Lower carbon footprint
- Lower maintenance and other life cycle costs

## Fluoropolymer Are Used in Many Types of Infrastructure and Construction



Airports



Libraries



Restaurants



Auto dealerships



Hospitals and clinics



Research laboratories



Bridges and Walkways



Hotels and resorts



Stadiums and arenas



Banks and financial  
service providers



Apartments and  
condominiums



Schools and  
universities



National  
defense



Museums and  
galleries



Shopping and retail  
centers



Corporate campuses  
and office buildings



Performing arts  
centers and theaters



Transportation stations  
and developments



Courthouses and  
government centers



Recreation and  
community centers



Worship and spiritual  
spaces

For more information, [please click here](#) to access the PFP's illustrated report on the pivotal role of fluoropolymers in I&C applications.

Visit the [Performance Fluoropolymer Partnership website](#) for more information.