

HIGH PROFILES[®]

Project Highlights From Around The World

Number 7

Torre Mayor Tower

Protected by CAFCO[®] - The Tallest Structure in Latin America

Soon to be the tallest building in all of Mexico, Torre Mayor Tower combines impressive architectural design with state-of-the-art technology and construction materials. This fifty-five story super-structure offers its tenants unparalleled design efficiencies; allowing them to utilize office space in the most resourceful way possible.

Such a high-profile structure demands the most stringent requirements for fire protection of its structural steel framework. Isolatek International was able to satisfy every demand and provide Passive Fire Protection products for each area of the project. The Toronto, Canada based architectural firm of Adamson Associates Architects turned to Isolatek International to help design various passive fire protection systems throughout the entire structure.

CAFCO BLAZE-SHIELD[®] II, BLAZE-SHIELD[®] HP, FENDOLITE[®] TG and CAFCO SprayFilm[™] were selected to satisfy all the passive fire protection requirements for the Torre Mayor project.

The CAFCO Dry-Mix line of Spray-Applied Fire Resistive Materials (SFRMs) will provide the required fire resistance ratings in all general service areas, parking structures and stairwell systems throughout the building. Commercial density BLAZE-SHIELD II is being utilized to protect structural steel beams, columns and decking. "UL Investigated for Exterior Use", BLAZE-SHIELD II is able to withstand exterior conditions through the building construction cycle, a benefit not found with any other commercial density SFRM. This is why BLAZE-SHIELD II was the SFRM of choice for the protection of perimeter columns and beams.



Adamson Associates Architects demanded an SFRM that would withstand limited physical abuse and abrasion resistance in the parking garage areas and stairwell systems. For this application, BLAZE-SHIELD HP was chosen. This medium density, portland-cement based Dry-Mix SFRM is able to provide the required fire resistance ratings and supply the added degree of durability. Like BLAZE-SHIELD II, HP has been "UL Investigated for Exterior Use" and can withstand exterior weather conditions throughout the construction phase. The BLAZE-SHIELD family's unique pneumatic application allows the material to be conveyed under low pressure to the substrate, a major factor to consider when pumping Wet-Mix SFRMs in high-rise construction. Additionally, BLAZE-SHIELD SFRMs allow for greater mobility during application since the use of scaffolds is often eliminated.



The entrance of the Torre Mayor structure is a large atrium comprised of exposed lightweight steel pipe columns supporting decorative steel spandrel beams. In designing fire protection for structural steel in this area, Adamson Associates Architects selected CAFCO SprayFilm thin-film intumescent coatings. CAFCO SprayFilm affords architects the ability to design structural steel that can be exposed to view and color coated, if desired, to match its surroundings, while still providing the required fire resistance rating.



Exposed wind bracing is located throughout this massive fifty-five story structure. In many areas, the wind bracing is exposed to public view and will encounter high volume maintenance traffic. FENDOLITE TG was selected as the product to provide both the required fire resistance rating and high degree of durability. FENDOLITE TG is a high density, Wet-Mix SFRM specifically designed for trowel application in exposed areas. In order to achieve the desired finish and appearance for the exposed wind bracing, the applicator installed metal lath in a boxed configuration with a plastic nosed cornerbead. The FENDOLITE TG was then trowel-applied to the final thickness required and a water-based latex paint was applied as a decorative topcoat over the SFRM to match interior surroundings.

CAFCO SprayFilm is the most cost-effective intumescent fire protection product available. This intumescent product can be applied using fewer passes than other competitive products and offers exceptional coverage. CAFCO SprayFilm offers the widest range of UL intumescent designs and meets all UL environmental requirements without the need for costly topcoats, adhesive base-coats, or mesh reinforcement. The superior physical property characteristics of CAFCO SprayFilm satisfies all project specification requirements and allows the architect the necessary design flexibility for the Torre Mayor project.

With the most comprehensive line of passive fire protection products on the market today, Isolatek International remains in the forefront. The Torre Mayor Tower furthers Isolatek International's reputation as the world leader in providing worldwide Total Passive Fire Protection .

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