



# Fire Station #3

Gatineau, QC, Canada



## Project Information

**Project category:**  
Public Buildings/Places

**Year of construction:**  
2018

**Year of MAPEI involvement:**  
2018

**MAPEI coordinator:**  
Justin Lafontaine

**Project owner:**  
City of Gatineau

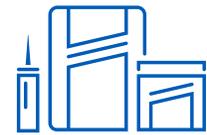
**CRS distributor:**  
Masonry Depot

**Contractors:**  
BTM Construction and Ideal Epoxy



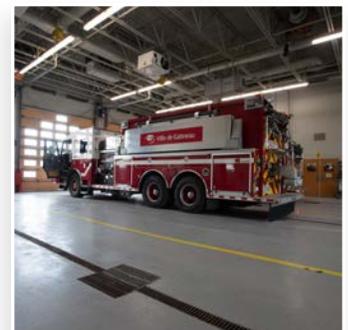
## Project Overview

Planners for the city of Gatineau, Quebec, knew that the concrete floor of their Fire Station #3 was in dire need of repair. With MAPEI products, they were able to make those repairs and then apply a rugged industrial-flooring solution that is designed to be more resilient than what was previously used at the station.



## Products Used

**Epojet™ LV**  
**Mapefer™ 1K**  
**Mapefloor™ CPU/COVE**  
**Mapefloor Finish 450**  
**Mapefloor I 302 SL**  
**Planitop® FD**  
**Primer SN™**



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## MAPEI products protect the foundation under first responders

As first responders, the team of firefighters serving the city of Gatineau, Quebec, from its Fire Station #3 often venture to the scenes of accidents that might have been avoided with a little foresight. The team could not practice what they preached, though, due to a fire-station floor that was itself an accident waiting to happen. The floor had taken a beating over the years under the punishing weight of three 35,000-pound (15 876-kg) fire trucks.

“The concrete slab was exposed, with some areas posing a tripping hazard to the firefighters as they hurried to answer calls,” said MAPEI coordinator Justin Lafontaine. “Any water accumulating on the floor was not draining and the original traffic coating was worn off.”

### MAPEI products on the jobsite

The two-part project began with three products from the Concrete Restoration Systems line, followed by application of a new epoxy resin flooring system that is formulated to provide excellent chemical and abrasion resistance.

For starters, the reinforcing steel that was exposed in places needed attention to sustain its strength. Contractors from BTM Construction addressed the issue by applying **Mapefer 1K** as an anti-corrosion coating to inhibit oxidization and rust formation. They repaired the cracks with **Epojet LV** deep-penetrating epoxy injection resin. **Planitop FD** cementitious, flowable repair mortar with corrosion inhibitor was then used to fill larger defects in the

5,000-square-foot (465-m<sup>2</sup>) concrete slab, bringing it to a Concrete Surface Profile (CSP) of #3 per the International Concrete Repair Institute (ICRI) specification.

With the slab now ready to take on its new resin-based floor, installers from Ideal Epoxy started on edge work using **Mapefloor CPU/COVE** polyurethane/cement-based coving and detailing screed. They then applied the new main coating – **Primer SN** filled epoxy primer with a full saturation of sand – to increase mechanical bond.

Installers then applied **Mapefloor Finish 450**, a solvent-free, aliphatic, polyurethane topcoat that is specifically designed to provide a protective wear coat for concrete surfaces in areas that are exposed to direct sunlight. Finally, they used **Mapefloor I 302 SL** epoxy resin for the yellow demarcation lines.

Now when crew members from Gatineau’s Fire Station #3 rush to answer calls, they can rest assured that their own fire-station floor will not become a tripping hazard — thanks in large part to MAPEI. The city can count on a tested, resilient, epoxy resin flooring that is ready to meet the station’s needs well into the future.



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