



BRYAN MCINTOSH, PRESIDENT

Welcome to Indu-Kote Systems' inaugural quarterly newsletter.

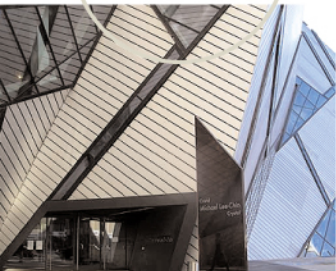
Each quarter, we will feature an industrial or commercial coating project completed by IKS, in which we will detail the following:

- Problems, issues and challenges inherent in the project
- Coating systems and applications specified for the project
- Immediate and long-term results

Our goal is to educate our readers by providing a thorough analysis of the coating system and why coatings fail or succeed. We hope to be a valuable and trusted source of information to your business.

ASK IKS: E-mail any coating questions you may have. If we can't answer it immediately, we will research the answers through our network of industry experts and journals, and published research.

PROJECT: ROM – Michael Lee Chin Crystal



Client: Josef Gartner USA Inc./Vanbots Construction Corp.

Type of Work: Refinishing of structural steel window mullion assemblies.

Value: \$225,000.

Overview: Large steel window mullions shipped from Germany as finished product are damaged in shipping and installation.

Problems/Issues/Challenges: Short time-line, awkward angles, difficult access, extensive damage to the steel.

Goal: Return to original factory finish – on-site.

Specifications: Epoxy primer and acrylic aliphatic urethane finish metallic black satin sheen.

A large and very complex addition to a Toronto institution involving the repair and refinishing of over 800 window openings across 5 floors through which the window assemblies soared on acute, obtuse and compound angles (*note: there is not a single 90 degree angle in the new addition*).

The coating specifications were supplied by the manufacturer – A German-made epoxy primer and acrylic urethane finish coat in a satin black metallic.

Extensive cleaning (SSPC-SP-1), sanding (SSPC-SP-2 & 3) and body filling were required to fill the numerous scratches, gouges and dents in the metal and to prepare them for refinishing.

All glass was installed prior to painting in order to keep the space heated. Each pane of glass had to be covered prior to painting. As steel is thermally-conductive, we were concerned with the substrate (surface) temperature affecting coating performance and esthetics.

Surface temperature readings were performed and a mock-up was performed and tested with excellent results.

All coatings were applied electrostatically to reduce air-borne particulate and VOC's. Finishing the steel in this manner was very efficient and produced a superior finish product. Access to the surface was obtained by a combination of scaffolding, boom lifts, ladders and fall arrest equipment.

The results were excellent despite the very difficult working conditions – tight spaces, odd angles, and other trades working in the same areas.

With a high quality urethane system, the ROM can likely expect 25 years or more of serviceability before any degree of gloss or colour degradation is remotely noticeable. This coating has excellent chemical, adhesive and abrasion resistant properties and maintains its gloss level and colour better than any other resin system.

With the colour (*black*) and sheen (*satin – 15 to 20 deg.*) selected by the architect, the following was evident:

- It masked minor defects in the steel (*high gloss coatings amplify these defects*), but it will require more care to keep clean (*relative to a lighter coloured, gloss coating*) in areas where the public is in physical contact with the mullions.

“Your dedication and expertise demonstrated throughout this project was exemplary. The crew worked diligently and professionally in repairing and finishing the window assemblies. Your company has been placed on our list of preferred contractors.”

Allan Barbieri

SENIOR PROJECT MANAGER

JOSEF GARTNER USA, INC.

BEFORE RESTORATION



AFTER RESTORATION



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