

# Product Case History



## A Graffiti Resistant Wall Coating for Ottawa's Newest Transit Station

### PRODUCT(S) USED:

- Exterior Coating 1: Carboguard 954 HB
- Exterior Coating 2: Carbothane 134 HG
- Exterior Coating 3: Carbothane Clear Coat

### AREA COATED:

One of OC Transpo's main concerns in regards to the maintenance and upkeep of its transit facilities is vandalism, specifically graffiti being sprayed on highly visible public areas. The Bayshore Station has been designed with a graffiti resistant painting system for walls from Carboline/Plasite on all interior walls in the areas accessible to transit users.

The graffiti resistant coating that was used at the Bayshore Station is classified as a non-sacrificial system. As opposed to sacrificial systems, where the coating has to be replaced after the graffiti has been removed, non-sacrificial systems are designed to withstand the chemicals and mechanical means by which graffiti is removed.

### LOCATION:

OTTAWA, ON

### DATE OF APPLICATION:

FALL 2000

### MARKET:

TRANSPORTATION

### SUBSTRATE:

STEEL

### SURFACE PREP:

CLEAN & DRY

### EXPOSURE:

CHEMICAL, SPLASH OR SPRAY

### SURFACE PREP:

DRY ABRASIVE BLASTED CONCRETE (SANDBLASTED) TO SSPC SP-13



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## COATING SELECTION EXPLANATION:

The Carboline/Plasite system consists of an epoxy primer or an epoxy surfacing compound, a tinted aliphatic urethane basecoat and a clear aliphatic urethane topcoat. The epoxy surfacing compound is typically used on sandblasted concrete to fill voids and to provide a smooth surface for the application of the basecoat. The epoxy primer acts as a bonding agent for the basecoat on surfaces that do not require the use of an epoxy surfacing compound. The aliphatic urethane basecoat provides the choice of finishing colour in a highly chemical and abrasion resistant coating, and finally, the clear aliphatic urethane topcoat enhances the colour and gloss retention of the basecoat. The performance enhancement provided by the clear aliphatic urethane topcoat is crucial in a graffiti resistant, non-sacrificial coating system able to withstand harsh graffiti removal systems. Should an overly aggressive graffiti removal system be used, the portion of the coating system that may be affected is the clear topcoat, therefore minimizing the visibility of any possible damage to the coating system.

The particular system that was used at the Bayshore Station consisted of Carboguard 954 HB, a high build, solvent-free, epoxy coating used as a primer over surfaced concrete; Carbothane 134 HG, a high solids, aliphatic urethane tinted to the desired colours and Carbothane Clear Coat Gloss, a high gloss, aliphatic urethane finishing coat. All these materials were applied by roller with minimal disruption to other trades working in the area.

StonCor worked closely with the architects for this project: J.L. Richards and Associates, the General Contractor (Doran Constructors), the Painting Contractor (Hanco Inc.) and the Owners, the City of Ottawa.

In closing, the StonCor Group is proud that we have been chosen to be a part of this important project that will help ensure that OC Transpo continues to provide the service that the people of Ottawa have come to expect.