PART 1 GENERAL

1.1 SCOPE OF WORK

.1 Supply all materials, labour, plant tools and equipment necessary to install a concrete sealer as specified and as shown on the drawings.

12 REFERENCES

.1 Except where modified by this section or the Contract Drawings, the standard specifications (latest edition) listed below shall govern:

.1 CAN/CGSB-25.20- Surface Sealer for Floors.

.2 CSA-A23.1- Concrete Materials and Methods of Concrete Construction.

.3 CSA S413 — Parking Structures

1.3 REQUIREMENTS

.1 Obtain Consultants approval prior to use of any system not specifically listed in this section. Proposals for use of alternate systems will be considered.

.2 The concrete surface temperature and the ambient temperature shall be maintained at a minimum of 5°C 24 hours unless specifically permitted within manufacturer's recommendations.

.3 Avoid rain for 4 hours following application.

.4 The moisture content of the concrete substrate shall be maintained within the manufacturer's limits during the application.

.5 All installation procedures and details shall be completed in full accordance with manufacturer's instructions.

.6 Where details shown on the drawings or in the specification are not in accordance with manufacturers requirements, notify Consultant.

1.4 QUALIFICATIONS

.1 The contractor performing the work under this section shall:

.1 Have adequate equipment and skilled personnel to expediently complete this work.

.2 Approved systems must be capable of adequately performing on all specified surfaces and shall be applied in strict accordance with the instructions provided by the manufacturer.

1.5 STORAGE

.1 Material shall be delivered and stored on site in their original containers or packages and clearly labelled with manufacturer's name and quantity.

.2 Materials shall be kept dry and protected from damage, weather and deterioration at all times. Store materials in warm and dry areas.

1.6 ENVIRONMENTAL REQUIREMENTS

.1 Temperature: Ensure concrete substrate is within moisture limits prescribed by manufacturer.

.2 Moisture: Ensure concrete substrate is within moisture limits prescribed by manufacturer.

.3 Safety: Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage, and disposal of hazardous materials.

.4 Ventilation: Provide continuous ventilation during and after coating application.

PART 2 Products

2.1 CONCRETE SEALER

.1 **Durex® Silane WRS 100** as manufactured by Durabond Technical Coatings Ltd.

2.2 MIXES

.1 Mixing, ratios and application in accordance with manufacturer's instructions.

PART 3 Execution

3.1 EXAMINATION

.1 Verify that slab surfaces and site conditions are ready to receive work and elevations are as instructed by manufacturer.

3.2 PRELIMINARY

.1 Test a small area of the surface before starting general application to establish coverage rates, determine any aesthetic change, and assure desired results.

3.3 PREPARATION

.1 Surfaces shall be clean and dry, free from surface water, ice, snow or frost, dust, dirt, grease, oil, soap, wax, paint, curing compound, laitance, and any other foreign materials before installation.

.2 Concrete surfaces shall be prepared in full accordance with manufacturer's instructions. Acid etching is not acceptable surface preparation methods.

3.4 APPLICATION

.1 When surface conditioner is fully dry, apply sealer in strict accordance with manufacturer's recommendations regarding rate of application, temperature, etc.

.2 Apply floor treatment in accordance with manufacturer's written instructions.

.3 Cleaning

.1 Clean overspray. Clean sealant from adjacent surfaces.

.2 Employ manufacturer's recommended cleaning solvents to remove sealer inadvertently applied to surfaces other than floor slabs and uniform laps at vertical surfaces.

3.5 PROTECTION

.1 Safety Precautions

.1 Keep on hand, suitable safety equipment and first aid materials to provide against injury from the specific materials.

.2 Assure that all workers using the materials understand the safety precautions to be taken and abide by them.

END OF SECTION 03 35 00