

## PART 1 - GENERAL

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| <u>1.1 REFERENCES</u>                          | .1 | Canada Green Building Council (CaGBC)   |
|  | .1 | LEED Canada-NC Version 1.0-2004, LEED (Leadership in Energy and Environmental Design): Green Building Rating System Reference Package For New Construction and Major Renovations (including Addendum 2007). |
|  | .2 | Canadian General Standards Board (CGSB)   |
|  | .1 | CAN/CGSB-1.5-99, Low Flash Petroleum Spirits Thinner.   |
|  | .2 | CAN/CGSB-1.74-01, Alkyde Traffic Paint.   |
|  | .3 | Green Seal Environmental Standards (GS)   |
|  | .1 | GS-11-2008, 2nd Edition, Paints and Coatings.   |
|  | .4 | Health Canada / Workplace Hazardous Materials Information System (WHMIS)  |
|  | .1 | Material Safety Data Sheets (MSDS).   |
|  | .5 | The Master Painters Institute (MPI)   |
|  | .1 | Architectural Painting Specification Manual - current edition.  |
|  | .6 | South Coast Air Quality Management District (SCAQMD), California State, Regulation XI. Source Specific Standards  |
|  | .1 | SCAQMD Rule 1113-A2007, Architectural Coatings.   |
| <u>1.2 ACTION AND INFORMATIONAL SUBMITTALS</u> | .1 | Submit in accordance with Section 01 33 00.   |
|  | .2 | Product Data:   |
|  | .1 | Submit manufacturer's printed product literature and data sheets for pavement markings and include product characteristics, performance criteria, physical size, finish and limitations.                    |
|  | .2 | Submit two copies of WHMIS MSDS in accordance with Section 01 35 29.06 and 01 35 43.  |
|  | .3 | Sustainable Design Submittals:  |
|  | .1 | LEED Canada-NC Version 1.0 CI Version 1.0 Submittals: in accordance with Section 01 35 21.  |
|  | .2 | Construction Waste Management:  |

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| 1.2 ACTION AND<br>INFORMATIONAL<br>SUBMITTALS<br>(Cont'd) | .3 Sustainable Design Submittals:(Cont'd)   |
|   | .2 Construction Waste Management:(Cont'd)   |
|   | .1 Submit project Waste Management Plan highlighting recycling and salvage requirements.  |
|   | .2 Submit calculations on end-of-project recycling rates, salvage rates, and landfill rates demonstrating that 50 75 % of construction wastes were recycled or salvaged   |
|   | .3 Low-Emitting Materials: submit listing of paints and coatings to comply with VOC and chemical component limits or restrictions requirements.   |
| 1.3 CLOSEOUT<br>SUBMITTALS                                | .1 Submit in accordance with Section 01 78 00.  |
|   | .2 Operations and Maintenance Data: submit information on materials relative to work of this Section for inclusion in operations and maintenance manual and as follows:   |
|   | .1.   |
| 1.4 DELIVERY,<br>STORAGE AND<br>HANDLING                  | .1 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.  |
|   | .2 Storage and Handling Requirements:   |
|   | .1 Store materials off ground indoors in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.  |
|   | .2 Replace defective or damaged materials with new.   |
|   | .3 Packaging Waste Management: remove for reuse and return by manufacturer of pallets, crates, padding and packaging materials as specified in Construction Waste Management Plan Waste Reduction Workplan in accordance with Section 01 74 20. |
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## PART 2 - PRODUCTS

- 2.1 MATERIALS
- .1 Paint:
    - .1 To MPI -EXT 2.1B, Alkyd zone/traffic marking.
    - .2 Paints: in accordance with MPI recommendation for surface conditions.
      - .1 Paints: maximum VOC limit 100 g/L to SCAQMD Rule 1113 to GS-11.
    - .3 Colour: to MPI listed, yellow black white.
    - .4 Upon request, Departmental Representative will supply qualified product list of paints applicable to work. Qualified paints may be used but Departmental Representative reserves right to perform further tests.

- .2 Thinner: to MPI listed manufacturer.
- .3 Glass reflective beads: type suitable for application to wet paint surface for light reflectance.

## PART 3 - EXECUTION

- 3.1 EXAMINATION
- .1 Verification of Conditions: verify conditions of substrates and surfaces to receive pavement markings previously installed under other Sections or Contracts are acceptable for product installation in accordance with MPI instructions prior to pavement markings installation.
    - .1 Visually inspect substrate in presence of Departmental Representative.

- .2 Pavement surface: dry, free from water, frost, ice, dust, oil, grease and other deleterious materials.
- .3 Proceed with Work only after unacceptable conditions have been rectified.

- 3.2 EQUIPMENT REQUIREMENTS
- .1 Paint applicator: approved pressure type mobile with positive shut-off distributor capable of applying paint in single, double and dashed lines and capable of applying marking components uniformly, at rates specified, and to dimensions as indicated.
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3.2 EQUIPMENT REQUIREMENTS (Cont'd) .2 Distributor: capable of applying reflective glass beads as overlay on freshly applied paint.

3.3 TRAFFIC CONTROL .1 Not Used.

3.4 APPLICATION .1 Pavement markings: laid out by Departmental Representative. Lay out pavement markings.

.2 Unless otherwise approved by Departmental Representative, apply paint only when air temperature is above 10 degrees C, wind speed is less than 60 km/h and no rain is forecast within next 4 hours.

.3 Apply traffic paint evenly at rate of 3 m<sup>2</sup> /L.

.4 Do not thin paint unless approved by Departmental Representative.

.5 Symbols and letters to dimensions indicated.

.6 Paint lines: of uniform colour and density with sharp edges.

.7 Thoroughly clean distributor tank before refilling with paint of different colour.

.8 Apply glass beads at rate of 0.5 kg/l of painted area immediately after application of paint.

3.5 TOLERANCE .1 Paint markings: within plus or minus 12 mm of dimensions indicated.

3.6 CLEANING .1 Progress Cleaning: clean in accordance with Section 01 74 11.

.1 Leave Work area clean at end of each day.

.2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment.

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3.6 CLEANING (Cont'd)	.3	Waste Management: separate waste materials for reuse and recycling in accordance with Section 01 74 20. .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.
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3.7 PROTECTION OF COMPLETED WORK	.1	Protect pavement markings until dry.
	.2	Repair damage to adjacent materials caused by pavement marking application.