

PART 1 - GENERAL

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| <u>1.1 REFERENCES</u> | .1 | Canada Green Building Council (CaGBC)
.1 LEED Canada-NC-2009, LEED (Leadership in Energy and Environmental Design): Green Building Rating System Reference Package For New Construction and Major Renovations. |
| | .2 | Health Canada / Workplace Hazardous Materials Information System (WHMIS)
.1 Material Safety Data Sheets (MSDS). |
| <u>1.2 ACTION AND INFORMATIONAL SUBMITTALS</u> | .1 | Submit in accordance with Section 01 33 00 - Submittal Procedures. |
| | .2 | Product Data:
.1 Submit manufacturer's instructions, printed product literature and data sheets for concrete hardener and curing compound and include product characteristics, performance criteria, physical size, finish and limitations.
.2 Submit electronic copies of WHMIS MSDS in accordance with Section 01 35 29.06 - Health and Safety Requirements. |
| | .3 | Sustainable Design Submittals:
.1 LEED Canada-NC-2009 - Submittals: in accordance with Section 01 35 21 - LEED Requirements. |
| <u>1.3 DELIVERY, STORAGE AND HANDLING</u> | .1 | Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions. |
| | .2 | Develop Construction Waste Management Plan related to Work of this Section and in accordance with Section 01 35 21 - LEED Requirements. |
| | .3 | Packaging Waste Management: remove for reuse and return by manufacturer of pallets, crates, padding, and packaging materials as specified |

1.3 DELIVERY,
STORAGE AND
HANDLING
(Cont'd)

- .3 Packaging Waste Management: (Cont'd)
in Construction Waste Management Plan in
accordance with Section 01 74 21 -
Construction/Demolition Waste Management and
Disposal and Section 01 35 21 - LEED
Requirements.

1.4 AMBIENT
CONDITIONS

- .1 Temporary lighting:
 - .1 Minimum 1200 W light source, placed 2.5
m above floor surface, for each 40 m² of floor
being finished.
- .2 Electrical power:
 - .1 Sufficient electrical power to operate
equipment normally used during construction.
- .3 Work area:
 - .1 Watertight protection against rain and
detrimental weather conditions.
- .4 Temperature:
 - .1 Maintain ambient temperature of not less
than 10 degrees C from 7 days before
installation to at least 48 hours after
completion of Work and maintain relative
humidity not higher than 40% during same
period.
 - .2 Maintain substrate temperature at 10
degrees C minimum.
- .5 Moisture:
 - .1 Ensure concrete substrate is within
moisture limits prescribed by hardener
manufacturer.
- .6 Ventilation:
 - .1 Ventilate enclosed spaces in accordance
with Section 01 51 00 - Temporary Utilities.
 - .2 Provide continuous ventilation during
and for 48 hours minimum after coating
application.

PART 2 - PRODUCTS

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| <u>2.1 GENERAL</u> | .1 | Sealer and hardener to meet the VOC limits of SCAQMD Rule 1113-2004. |
| | .2 | Hardeners: 0/g L maximum VOC content. |
| | .3 | Sealer: < 250g/L. |
| <u>2.2 NON-PIGMENTED FLOOR HARDENER</u> | .1 | Non-metallic hardener: premixed, mineral aggregate type, dry shake surface hardener, cement to hardener ratio as per manufacturer's written instructions. Colour: natural. |
| <u>2.3 PIGMENTED FLOOR HARDENER</u> | .1 | Hardener: mineral aggregate type, pigmented, premixed, dry shake surface hardener, cement to hardener ratios as per manufacturer's written instructions. Colour to be selected from manufacturer's standard range. |
| <u>2.4 SEALER</u> | .1 | Water-based acrylic concrete cure and seal. |
| | .2 | Non-yellowing, water: clear, high-gloss acrylic emulsion, as recommended by hardener manufacturer. |

PART 3 - EXECUTION

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| <u>3.1 EXAMINATION</u> | .1 | Verification of Conditions: verify conditions of substrate previously installed under other Sections or Contracts are acceptable for concrete hardener and curing compound application installation in accordance with manufacturer's written instructions. |
| | .1 | Visually inspect substrate. |
| | .2 | Inform Departmental Representative of unacceptable conditions immediately upon discovery. |

- 3.1 EXAMINATION .1 (Cont'd)
(Cont'd) .3 Proceed with installation only after unacceptable conditions have been remedied.
- 3.2 HARDENING .1 Apply floor hardener aggregate at rates indicated in reviewed submittals in accordance with manufacturer's written instructions.
- 3.3 CLEANING .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
.1 Leave Work area clean at end of each day.
.2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
.3 Waste Management: separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal and Section 01 35 21 - LEED Requirements.
.1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.
- 3.4 PROTECTION .1 Protect finished installation until floor treatment has completely cured.
.2 Repair damage to adjacent materials caused by concrete floor hardener installation.