

PART 1 GENERAL

<u>1.1 SECTION INCLUDES</u>	.1	Materials and installation for concrete floor hardeners, and curing materials.
<u>1.2 RELATED SECTIONS</u>	.1	Section 01 33 00 - Submittal Procedures.
	.2	Section 01 74 21 - Construction/Demolition Waste Management And Disposal.
	.3	Section A1010 - Standard Foundations.
	.4	Section A1030 - Slabs On Grade.
<u>1.3 REFERENCES</u>	.1	Health Canada - Workplace Hazardous Materials Information System (WHMIS)
	.1	Material Safety Data Sheets (MSDS).
<u>1.4 SUBMITTALS</u>	.1	Submit product data in accordance with Section 01 33 00 - Submittal Procedures.
	.2	Include application instructions for concrete hardener and curing compound.
	.3	Submit WHMIS MSDS - Material Safety Data Sheets in accordance with Section 02 81 01 - Hazardous Materials.
	.1	WHMIS MSDS acceptable to Human Resources Development Canada-Labour and Health Canada for concrete floor hardeners.
	.2	Indicate VOC content.
<u>1.5 WASTE MANAGEMENT AND DISPOSAL</u>	.1	Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal.
	.2	Remove from site and dispose of packaging materials at appropriate recycling facilities.
	.3	Collect and separate for disposal paper plastic polystyrene corrugated cardboard packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.

- .4 Separate for reuse and recycling and place in designated containers Steel Metal and Plastic waste in accordance with Waste Management Plan.
- .5 Dispose of unused chemical additive materials at an official hazardous materials collections site approved by Departmental Representative.
- .6 Unused chemical additive materials must not be disposed of into sewer system, into streams, lakes, onto ground or in other location where it will pose health or environmental hazard.
- .7 Fold up metal banding, flatten and place in designated area for recycling.
- .8 Dispose of unused chemical additive materials at an official hazardous materials collections site approved by Departmental Representative.

1.6 ENVIRONMENTAL REQUIREMENTS

- .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 Water tight 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.

.6 Safety:

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

.7 Ventilation:

- .1 Arrange for ventilation system to be operated during installation of concrete floor hardeners. Ventilate area of work as directed by Departmental Representative by use of approved portable supply and exhaust fans.
- .2 Ventilate enclosed spaces in accordance with Section 01 51 00 - Temporary Utilities.
- .3 Provide continuous ventilation during and after coating application.

PART 2 PRODUCTS

2.1 FLOOR
HARDENER

- .1 Non-metallic hardener: premixed, aggregate type, dry shake surface hardener, cement to hardener ratio 2 to 1, cement colour.
 - .1 Volcanic basaltic aggregate (traprock).
 - .1 Quartz aggregate.

PART 3 EXECUTION

3.1 EXAMINATION

- .1 Verify that slab surfaces are ready to receive Work.

3.2 HARDENING

- .1 Apply floor hardener aggregate at rate in accordance with manufacturer's written instructions.

3.3 PROTECTION

- .1 Protect finished installation until floor treatment has completely cured.