

**Part 1            General**

**1.1            RELATED REQUIREMENTS**

- .1        Section 02 41 16.01 – Structure demolition
- .2        Section 07 92 00 – Joint sealants
- .3        Section 09 00 10 – Finishes schedule
- .4        Section 09 91 23 – Interior painting

**1.2            REFERENCES**

- .1        Canadian General Standards Board (CGSB)
  - .1        CAN/CGSB-25.20-95, Surface Sealer for Floors.
- .2        CSA International
  - .1        CAN/CSA-A23.1-09/A23.2-09, Concrete Materials and Methods of Concrete Construction//Methods of Test for Concrete.

**1.3            ENVIRONMENTAL REQUIREMENTS**

- .1        Temporary lighting:
    - .1        Minimum 1200 W light source, placed 2.5 m above floor surface, for each 40 sq m of floor being treated.
  - .2        Electrical power:
    - .1        Provide sufficient electrical power to operate equipment normally used during construction.
  - .3        Work area:
    - .1        Make work area water tight protected 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.
  - .5        Moisture:
    - .1        Ensure concrete substrate is within moisture limits prescribed by [flooring] manufacturer.
  - .6        Ventilation:
    - .1        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.
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- .3 Provide continuous ventilation during and after coating application.

#### **1.4 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements:
  - .1 Deliver materials to site in original factory packaging, labelled with manufacturer's name, address.
- .3 Packaging Waste Management: remove for of pallets, crates, padding, and packaging materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

#### **1.5 PERFORMANCE REQUIREMENTS**

- .1 Product quality and quality of work in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Submit written declaration that components used are compatible and will not adversely affect finished flooring products and their installation adhesives.

### **Part 2 Products**

#### **2.1 CONCRETE CONSTITUENTS**

- .1 In conformance with engineers specifications and appropriate references.

#### **2.2 CHEMICAL HARDENERS**

- .1 In conformance with engineers specifications and appropriate references.

#### **2.3 CURING COMPOUNDS**

- .1 In conformance with engineers specifications and appropriate references.

#### **2.4 RESURFACING PRODUCTS**

- .1 Resurfacing and/or preparation and/or levelling compound for floor to receive resilient flooring: polymer modified quick set cementations base, such as Plani/Patch and Plani/Patch Plus from Mapei.
- .2 Latex type additive products, auxiliaries, and compatible hardeners as required used as per manufacturers recommendations for usage.

#### **2.5 MIXES**

- .1 Mixing ratios in accordance with manufacturer's instructions.

**Part 3                    Execution**

**3.1                        EXAMINATION**

- .1                    Verify that slab surface conditions are ready to receive work and elevations are conforming.

**3.2                        PREPARATION OF EXISTING SLAB**

- .1                    Use products and protective clothing for the preparation of existing slabs following the removal of concrete block wall sections for the patching and installation of new floor finish.

**3.3                        APPLICATION**

- .1                    Apply concrete finishing floor hardener in accordance with manufacturer's written instructions.
- .2                    After floor treatment is dry, seal control joints and joints at junction with vertical surfaces with sealant.
- .3                    Apply floor treatment in accordance with Sealer manufacturer's written instructions.
- .4                    Clean over spray. Clean sealant from adjacent surfaces.

**3.4                        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.

**3.5                        PROTECTION**

- .1                    Protect finished installation in accordance with manufacturer's instructions.

**END OF SECTION**

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