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**Partie 1      General**

**1.1      RELATED REQUIREMENTS**

- .1      Section 03 30 00 Cast-in-place Concrete.
- .2      Section 04 05 19 Masonry Anchorage and Reinforcing.
- .3      Section 07 21 13 Board Insulation.
- .4      Section 07 26 00 Vapour Retarders.
- .5      Section 07 62 00 Sheet Metal Flashing and Trim.

**1.2      REFERENCES**

- .1      Canadian General Standards Board (CGSB)
  - .1      CAN/CGSB-37.3-M89, Application of Emulsified Asphalts for Dampproofing or Waterproofing.
  - .2      CAN/CGSB-37.5-M89, Cutback Asphalt Plastic Cement.
  - .3      CGSB 37-GP-6Ma-83, Asphalt, Cutback, Unfilled, for Dampproofing.
  - .4      CGSB 37-GP-11M-76(C1984), Application of Cutback Asphalt Plastic Cement.
  - .5      CGSB 37-GP-12Ma-84, Application of Unfilled Cutback Asphalt for Dampproofing.
  - .6      CAN/CGSB-37.16-M89, Filled, Cutback, Asphalt for Dampproofing and Waterproofing.
  - .7      CAN/CGSB-37.28-M89, Reinforced Mineral Colloid Type, Emulsified Asphalt for Roof Coatings and for Waterproofing.
  - .8      CGSB 37-GP-36M-76, Application of Filled Cutback Asphalts for Dampproofing and Waterproofing.
- .2      Health Canada.
  - .1      Workplace Hazardous Materials Information System (WHMIS)
    - .1      Material Safety Data Sheets (MSDS)

**1.3      ACTION AND INFORMATIONAL SUBMITTALS**

- .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 bituminous dampproofing application and include product characteristics, performance criteria, physical size, finish and limitations.
  - .2      Submit two (2) copies of WHMIS MSDS in accordance with Section 01 35 29.06 - Health and Safety Requirements.
- .3      Manufacturer's Instructions: provide to indicate special handling criteria, installation sequence, cleaning procedures and storage.

- .4 Sustainable Design Submittals:
  - .1 Construction Waste Management:
    - .1 Submit project Waste Management Plan, in accordance with section 01 74 21 – Construction/Demolition Waste Management and Disposal, highlighting recycling and salvage requirements.
  - .2 Recycled Content:
    - .1 Submit listing of recycled content products used, including details of required percentages or recycled content materials and products, showing their costs and percentages of post-consumer content, and total cost of materials for project.
    - .2 Submit evidence, when Supplementary Cementing Materials (SCMs) are used, to certify reduction in cement from Base Mix to Actual SCMs Mix, as percentage.
  - .3 Low-Emitting Materials:
    - .1 Submit listing of coatings and sealers used in building, showing compliance with VOC and chemical component limits or restriction requirements.

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

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
  - .1 Store materials off ground, in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2 Store and protect dampproofing materials from nicks, scratches, and blemishes.
  - .3 Replace defective or damaged materials with new.
- .4 Develop Construction Waste Management Plan and Waste Reduction Plan related to Work of this Section and in accordance with 01 74 21 – Construction/Demolition Waste Management and Disposal.
- .5 Packaging Waste Management: remove for reuse and return by manufacturer of packaging materials as specified in Construction Waste Management Plan.

#### **1.5 SITE CONDITIONS**

- .1 Ambient Conditions: temperature, relative humidity, moisture content.
  - .1 Apply dampproofing materials only when surfaces and ambient temperatures are within manufacturers' prescribed limits.
  - .2 Do not proceed with Work when wind chill effect would tend to set bitumen before proper curing takes place.

- .3 Maintain air temperature and substrate temperature at dampproofing installation area above 5 degrees C for 24 hours before, during and 24 hours after installation.
- .4 Do not apply dampproofing in wet weather.
- .2 Safety: comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage, and disposal of asphalt, sealing compounds, primers and caulking materials.
- .3 Ventilation:
  - .1 Where installation of dampproofing asphalt requires protection, regardless of the reasons, take necessary measures to ventilate the area affected by the Work to remove toxic fumes.

## **1.6 ACCEPTABLE PRODUCTS AND MATERIALS**

- .1 Where a particular brand name is stipulated, see Instructions to Bidders for procedure for requesting approval of substitute materials and products

## **Partie 2 Products**

### **2.1 MATERIALS**

- .1 Asphalt:
  - .1 For application and curing at temperatures above 5 degrees C: to CAN/CGSB-37.2:
    - Colour: black.
    - Solids:  $\pm 57\%$ .
    - Minimum application temperature:  $+5^{\circ}\text{C}$ .
  - .1 Package label or bill of lading for bulk hot liquid asphalt must indicate type, flash point, equiviscous temperature range and final blowing temperature.
  - .2 For application and curing at temperatures above 0 degrees C but below 5 degrees C: to CAN/CGSB-37.16:
    - Colour: black.
    - Solids:  $\pm 54\%$ .
    - Minimum application temperature:  $-12^{\circ}\text{C}$ .
  - .1 Package label or bill of lading for bulk hot liquid asphalt must indicate type, flash point, equiviscous temperature range and final blowing temperature.
- .2 Sealing compound: plastic cutback, to CAN/CGSB-37.29:
  - Colour: black.
  - Solids:  $\pm 70\%$ .

- .3 Fibreglass reinforcing mat: to CGSB-GP-63M:  
Colour: yellow.  
Mesh: 20/10.

### **Partie 3 Execution**

#### **3.1 EXAMINATION**

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for bituminous dampproofing installation in accordance with manufacturer's written instructions.
- .1 Visually inspect substrate in presence of Departmental Representative.
- .2 Inform Departmental of unacceptable conditions immediately upon discovery.
- .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

#### **3.2 WORKMANSHIP**

- .1 Keep hot asphalt:
- .1 Below its flash point.
- .2 At or below its final blowing temperature.
- .3 Within its equiviscous temperature range at place of application.

#### **3.3 PREPARATION**

- .1 Before applying dampproofing.
- .1 Seal exterior joints between foundation walls and footings, joints between concrete floor slab and foundation and around penetrations through dampproofing with sealing compound.

#### **3.4 APPLICATION**

- .1 Do dampproofing in accordance with CAN/CGSB-37.3 and CGSB 37-GP-36M.
- .2 Do sealing work in accordance with CGSB 37-GP-11M.
- .3 Do priming of surface in accordance with CGSB 37-GP-15M.
- .4 Apply primer to CGSB primer standard.
- .5 Apply dampproofing in accordance with applicable CGSB application standard.
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Material	Application	
CAN/CGSB-37.2	Use	CAN/CGSB-37.3
CAN/CGSB-37.16	Use	CGSB 37-GP-36M

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**3.5 SCHEDULE**

- .1 Apply continuous, uniform coating to entire exterior faces of foundation walls from 50 mm below finished grade level to and including tops of foundation wall footings.
- .2 Apply continuous, uniform coating to exterior side of foundation walls enclosing rooms below finished grade. Include exterior portion of interior walls where floors in adjacent rooms are at different elevations.
- .3 Apply two additional coats of dampproofing to vertical corners and construction joints for a minimum width of 230 mm on each side, and all around and for 230 mm along pipes passing through walls.
- .4 Seal formwork cones according to manufacturer's instructions.

**3.6 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/ recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal
  - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

**3.7 PROTECTION**

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by dampproofing application.

**END OF SECTION**