

**1 GENERAL**

**1.01 REFERENCE STANDARDS**

- .1 Canadian Standards Association (CSA)
  - .1 CAN/CSA-A179 – Mortar and Grout for Unit Masonry

**1.02 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver materials to site in original factory packaging, labelled with manufacturer's name and address.

**1.03 SITE CONDITIONS**

- .1 Ambient conditions: maintain temperature between 10 and 27 degrees C for duration of work.
- .2 Remove work exposed to temperatures lower than 5 degrees C as directed by Contract Administrator.
- .3 When ambient temperature is above 21 degrees C:
  - .1 Protect repointed areas from direct sunlight and wind.
  - .2 Use protective methods acceptable to the Contract Administrator.
- .4 Provide humid cure for a minimum of seven (7) days.

**2 PRODUCTS**

**2.01 MORTAR**

- .1 Mortar: in accordance with CAN/CSA-A179.
- .2 Type: mortar for repointing shall be Type S, based on proportion specifications of CAN/CSA-A179.

**3 EXECUTION**

**3.01 RAKING JOINTS**

- .1 Use manual raking tool to obtain clean masonry surfaces.
  - .1 Remove mortar from masonry surfaces where indicated on drawings to full depth of joint leaving square corners and flat surface at back of cut.
  - .2 Clean out voids and cavities encountered.
- .2 Remove mortar without chipping, altering or damaging masonry units.

- .3 Where use of power tools to remove mortar is deemed appropriate by Contract Administrator:
  - .1 Rake out using maximum 86mm diameter blades to centre of joint only, to a maximum depth that is equal to half of joint width. Mortar must remain on each side of saw cut. Raking must not touch masonry units.
  - .2 Stop saw cut 50 to 75mm from end of vertical and discontinuous horizontal joints. Do not cut into masonry units.
  - .3 Notify Contract Administrator to inspect raking, prior to removing remaining mortar with hand tools.
  - .4 Remove remaining mortar with hand tools.
- .4 Clean surfaces of joints without damaging texture of exposed joints or masonry units.
- .5 Flush open joints and voids; clean open joints and voids with low pressure water and if not free draining blow clean with compressed air.
- .6 Leave no standing water.
- .7 Replace masonry damaged as a result of careless raking of saw cutting, at no cost to The City.

### **3.02 REPOINTING**

- .1 When required repair and replacement work is complete, and new flashing is in place, carry out repointing.
- .2 Before repointing, wash down wall to be repointed and allow to dry to damp, but not wet. Ensure that dust and debris are removed from joints and wall surfaces prior to repointing.
- .3 Keep masonry damp while pointing is being performed.
- .4 Completely fill joint with mortar.
  - .1 If surface of masonry units has worn rounded edges keep pointing back 1mm from surface to maintain same width of joint.
  - .2 Avoid feathered edges.
  - .3 Pack mortar firmly into voids and joints, ensuring full contact with back and sides of joint and leaving no voids.
- .5 Build-up pointing in layers not exceeding 25mm in depth.
  - .1 Allow each layer to set before applying subsequent layers.
  - .2 Maintain joint width.
- .6 Finish joints to match existing profile.
- .7 Remove excess mortar from masonry face before it sets.

**3.03 CLEANING**

- .1 Clean surfaces thoroughly of mortar droppings, stains and other blemishes resulting from work of this contract on a daily basis, as work progresses.
- .2 Remove droppings and splashings using clean water and thick cotton rags.

**3.04 PROTECTION OF COMPLETED WORK**

- .1 Protect adjacent finished work against damage which may be caused by on-going work.

**END OF SECTION**