

PART 1 - GENERAL

- 1.1 Reference Standards .1 Do concrete finishing to CSA-A23.1 unless specified otherwise.
- 1.2 Measurement For Payment .1 No separate measurement for payment to be made for items under this section. Include all costs incidental to the unit price items for which concrete finishing is required under Section 03 30 00 Cast-In-Place Concrete.

PART 2 - PRODUCTS

- 2.1 Materials .1 Joint sealant - two component polysulphide self levelling compound meeting CGSB 19 GP-3M. Primer as recommended by the manufacturer. Colour to match concrete.

PART 3 - EXECUTION

- 3.1 Concrete Finish .1 Finish concrete in accordance with CAN3-A23.1-M90.
- .2 Rub exposed sharp edges of concrete with carborundum to produce 3 mm radius edges unless otherwise detailed.
- .3 All concrete surfaces, unless specified otherwise, that will be visible on completion of the work shall conform to surface finish Class 2. The surface shall be uniform in colour and texture when viewed from a distance of 15 m.
- .4 Class 2 - Rubbed Finish
- .1 Immediately following the removal of forms, all fins and irregular projections shall be removed from all interior and exterior surfaces except from those which are not to be exposed. On all surfaces, the cavities produced by form ties and all other holes, honeycombs, spots, broken corners or edges and other defects shall be cut back to sound concrete and thoroughly cleaned. No feather edging is permissible.
- .2 After having been kept saturated with water for a period of not less than three hours, the cavities shall be carefully pointed and trued with a 40 mPa non-shrink grout. The patches shall be placed and cured as specified by the manufacturer. All construction and expansion joints in the completed work shall be left carefully tooled and free of all grout and concrete. The joint filler shall be left exposed for its full length with clean and true edges. The resulting surfaces shall be true and uniform.

After removal of forms, the rubbing of concrete shall be started as soon as its condition will permit. However, before starting this work the concrete shall be kept thoroughly saturated with water for a minimum period of three hours but sufficient time shall have elapsed before the wetting down to allow the grout used in the pointing of rod holes and defects to thoroughly set. Surfaces to be finished shall be rubbed with a medium coarse carborundum stone, using a small amount of mortar on its face. The mortar shall be composed of extra cement and fine and mixed in proportions such as to match existing concrete verified by a patch test. Rubbing shall be continued until all form marks, projections and irregularities have been removed, all voids filled, and a uniform surface has been obtained. The paste produced by this rubbing shall be left in place at this item. After all concrete above the surface being treated has been cast, the final finish shall be obtained by rubbing with a fine carborundum stone and water. This rubbing shall be continuous until the entire surface is of a smooth texture and uniform colour. After the final rubbing is completed and the surface has dried, it shall be rubbed with burlap to remove loose powder and shall be left free from all unsound patches, paste, powder, and objectionable marks.

- .3 Steel trowel concrete surfaces by means of hand trowel. Do not leave any hard, smooth, polished or burnished surface area.
- .4 Do not bring water and fines to the surface by over trowelling.
- .5 After slight interval necessary for concrete to further harden, repeat the trowelling operation.
- .6 The surface shall be true and accurate within a tolerance acceptable to the Departmental Representative. Refer to Section 03 30 00, for acceptable concrete placement tolerances.

3.2 Joint Sealant

- .1 Prepare and prime surfaces to manufacturer's instructions.
- .2 Ensure joints are clean and free of dust and debris before applying sealant.
- .3 Install sealant bead at top of all expansion and control joints as recommended by the manufacturer and as detailed after application of primer.

- .4 Clean off excess sealant from concrete using joint cleaner recommended by the manufacturer and compatible with concrete and sealant.