

1 GENERAL

1.01 REFERENCES

.1 ASTM International

- .1 ASTM A185/A185M-07, Standard Specification for Steel Welded Wire Reinforcement, Plain, for Concrete.
- .2 ASTM D260-86(2001), Standard Specification for Boiled Linseed Oil.
- .3 ASTM D1751-04(2013)e1, Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Non extruding and Resilient Bituminous Types).

.2 Canadian General Standards Board (CGSB)

- .1 CAN/CGSB-19.24-M90, Multicomponent, Chemical-Curing Sealing Compound.

.3 CSA International

- .1 CSA-A23.1/A23.2-2014, Concrete Materials and Methods of Concrete Construction/Methods of Test and Standard Practices for Concrete.
- .2 CSA A3000-13, Cementitious Materials Compendium (Consists of A3001, A3002, A3003, A3004 and A3005).
- .3 CSA-G30.18-09(R2014), Carbon Steel Bars for Concrete Reinforcement.

1.02 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.

1.03 DELIVERY, STORAGE AND HANDLING

- .1 Packaging Waste Management: remove for reuse and recycling all packaging materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

2 PRODUCTS

2.01 MATERIALS

- .1 Water: to CSA A23.1/A23.2.

.2 Repair Mortar:

Acceptable Materials:

1. Sika SikaRepair® 223.
2. BASF MasterEmaco® N 424.
3. Mapei Planitop™ X.

.3 Adhesive Mortar (for sealing surface and setting ports):

Acceptable Materials:

1. Sika Sikadur® 31 Hi-Mod Gel.
2. BASF MasterInject® 1500.
3. Mapei Planibond™ AE.

.4 Epoxy Resin (for crack injection):

Acceptable Materials:

1. Sika Sikadur® 55 SLV/SLV Slow-Cure (for gravity feeding) or Sikadur® 52 (for injecting).
2. BASF MasterInject® 1380 (for injecting).
3. Mapei Epojet™ LV (for injecting).

.5 Waterstop:

Acceptable Materials:

1. Sika SikaSwell® S-2.
2. DeNeef Swellseal® WA.

.6 Waterproof resurfacing mortar:

Acceptable Materials:

1. Sika SikaTop® Seal 107.
2. BASF MasterSeal® 550.
3. Mapei Planiseal™ 88.

3 EXECUTION

3.01 PREPARATION

- .1 Provide Departmental Representative 24 hours notice before each concrete pour.
- .2 During concreting operations:
 1. Development of cold joints not allowed.
 2. Ensure concrete delivery and handling facilitates placing with minimum of re-handling, and without damage to existing structure or Work.
- .3 Protect previous Work from staining.
- .4 Clean and remove stains prior to application of concrete finishes.

3.02 INSTALLATION/APPLICATION

- .1 Do cast-in-place concrete work in accordance with CSA A23.1/A23.2.
- .2 Sleeves and inserts:
 1. Cast in sleeves, ties, slots, anchors, reinforcement, frames, conduit, bolts, water stops, joint fillers and other inserts required to be built-in.
 2. Sleeves and openings greater than 100 mm x 100 mm not indicated, must be reviewed by Departmental Representative.

3.03 FINISHES

- .1 Formed surfaces exposed to view: sack rubbed finish in accordance with CSA A23.1/A23.2.
- .2 Floor slabs to receive mortar bed for ceramic: screed to correct grade to provide broomed texture.

3.04 CURING

- .1 Use curing compounds compatible with applied finish on concrete surfaces free of bonding agents and to CSA A23.1/A23.2.

3.05 CLEANING

- .1 Clean in accordance with Section 01 74 11 - Cleaning.
- .2 Use trigger operated spray nozzles for water hoses.
- .3 Designate cleaning area for tools to limit water use and runoff.
- .4 Cleaning of concrete equipment to be done in accordance with Section 01 35 43 Environmental Procedures.
- .5 Waste Management: separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
 - .1 Divert admixtures and additive materials from landfill to approved official hazardous material collections site after receipt of written approval from Departmental Representative.
 - .2 Do not dispose of unused admixtures and additive materials into sewer systems, into lakes, streams, onto ground or in other location where it will pose health or environmental hazard.

END OF SECTION 03 30 00.01