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## **10 CONCRETE PROTECTION AND WATER PROOFING (SECTION 03600)**

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### **10.1 Part 1 General**

#### **10.1.1 Scope and General Requirements**

- A. This section of the specification gives the requirements for the manufacture and application of protection and waterproofing systems to concrete surfaces and includes coatings, membranes, linings and waterproof membranes.
- B. The internal surfaces of surface water drainage pumping station wet sumps, culverts, chambers, tanks, manholes, and other concrete structures shall be protected by epoxy coating unless specified otherwise.
- C. The internal faces of pumping station wet sumps, culverts, chambers, tanks, manholes, and other concrete structures in contact with sewage or sewage gas shall be protected with a preformed glass reinforced plastic (GRP) lining. Where it is impracticable to construct a preformed GRP lining such faces shall be protected by means of an in situ GRP lamination unless specified otherwise.
- D. Waterproofing systems shall be applied to upper faces of concrete blinding layers and below ground horizontal and vertical faces of substructures unless specified otherwise.

#### **10.1.2 Related Documents**

The following sections of the specification shall be read in conjunction with this section:

Section 01300-Submittals

Section 01400-Quality control

Section 01600-Materials and equipment

Section 03500 -Concrete repair

#### **10.1.3 Standards**

All activities relating to this section of the specification shall comply with the following or approved equal standards.

ASTM D36	Standard test method for softening point of bitumen (ring-and-ball apparatus).
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ASTM D146	Standard test methods for sampling and testing bitumen-
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