

SECTION 706—CONCRETE BONDING COMPOUND

706.1 Epoxy-Bonding Compound—Provide an epoxy bonding compound conforming to [ASTM C 881](#) and specify Type and Grade as per operation. Obtain compound from a manufacturer listed in [Bulletin 15](#). Certify as specified in [Section 106.03\(b\)3](#). Submit a copy of the manufacturer's recommendations for proper application to the Representative. Apply the compound according to the manufacturer's recommendations.

(a) General. If epoxy-bonding compounds are used, the Type and Grade of epoxy must be specified for each specific operation. Use the following classifications in conjunction with [Bulletin 15](#):

1. Application/Operation Specific Types.

- Type I—For use in non-load bearing applications, bonding hardened concrete (28 days or older) to hardened concrete surfaces.
- Type II—For use in non-load bearing applications, bonding freshly mixed concrete to hardened concrete.
- Type III—For use in bonding skid-resistant materials to hardened concrete and as a binder in epoxy mortars or epoxy concretes used on traffic bearing surfaces (or surfaces subject to thermal or mechanical movements).

2. Grades. Flow characteristics.

- Grade 1—Low viscosity
- Grade 2—Medium viscosity
- Grade 3—Non-sagging consistency

3. Classes. Temperature use range.

- Class A—For use below 4 °C (40F), to the lowest allowable temperature defined by the manufacturer.
- Class B—For use between 4 °C and 16 °C (40F and 60F).
- Class C—For use above 16 °C (60F), to the highest allowable temperature defined by the manufacturer.

706.2 Non-Epoxy-Bonding Compound—Provide a non-epoxy-bonding compound with a minimum 14-day bond strength of 10.3 MPa (1,500 pounds per square inch) as tested according to [ASTM C 882](#). Obtain compound from a manufacturer listed in [Bulletin 15](#). Certify as specified in [Section 106.03\(b\)3](#). Submit a copy of the manufacturer's recommendations for proper application to the Representative. Apply the compound according to the manufacturer's recommendations.