

QPL 8 EPOXY RESIN SYSTEMS

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PROCEDURES

GENERAL

This evaluation procedure outlines the Department's approval process for epoxy resin systems used as outlined below:

Type I: For use in non-load bearing applications for bonding hardened concrete to hardened concrete and other materials, and as a binder in epoxy mortars or epoxy concrete.

Type II: For use in non-load bearing applications for 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 concrete used on traffic bearing surfaces (or surfaces subject to thermal or mechanical movements).

Type IV: For use in load bearing applications for bonding hardened concrete to hardened concrete and other materials and as a binder for epoxy mortars and concrete.

Type V: For use in load bearing applications for bonding freshly mixed concrete to hardened concrete.

Type VI: For bonding and sealing segmental pre-cast elements with internal tendons and for span-by-span erection when temporary post tensioning is applied.

Type VII: For use as a non-stress carrying sealer for segmental pre-cast elements when temporary post tensioning is not applied as in span-by-span erection.

Grade 1: Low viscosity

Grade 2: Medium viscosity

Grade 3: Non-sagging consistency

Class A: For use below 40°F (4.5°C) the lowest allowable temperature to be defined by the manufacturer of the product.

Class B: For use between 40° and 60°F (4.5° and 15.5°C).

Class C: For use above 60°F (15.5°C) the highest allowable temperature to be defined by the manufacturer of the product.

Class D: For use between 40° and 65°F (4.5° and 18.0°C).

Class E: For use between 60° and 80°F (15.5° and 26.5°C).

Class F: For use between 75° and 90°F (24.0° and 32.0°C).

SPECIFICATIONS

ASTM C 881 and 882
AASHTO M 235

PROCEDURE

A completed Product Evaluation Form, MSDS sheets, if applicable, product data information and sample of the product being tested must be submitted to the Division of Materials and Tests.

Acceptance will be based on manufacturer's certification and corroborative Departmental test data performed in accordance with ASTM C 881 and 882.