

EPOXY SPECIFICATIONS

ASTM C881-90 Specification

EPOXY CLASSIFICATION

✚	TYPE I	Old to Old – No Load
✚	TYPE II	New to Old – No Load
✚	TYPE III	Overlays
✚	TYPE IV	Old to Old – With / Load
✚	TYPE V	New to Old – With / Load
✚	TYPE VI	Segmental Precast
✚	TYPE VIII	Segmental Sealer

EPOXY TEMPERATURE CLASS

✚	CLASS A *****	Below 40F (4.5C)
✚	CLASS B *****	Below 40F and 60F
✚	CLASS C *****	Below 60F (15.5C)
✚	CLASS D *****	Between 40F and 65F
✚	CLASS E *****	Between 60F and 80F
✚	CLASS F *****	Between 75F and 90F (32C)

EPOXY VISCOSITY CLASSIFICATIONS

✚	GRADE I	Low Viscosity of LV
✚	GRADE II	Medium Viscosity of MV
✚	GRADE III	High Viscosity – Paste / Gel

Definitions

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 concretes.

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 concretes 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 concretes.

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

Type VI – For bonding and sealing segmental precast 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 precast elements when temporary post tension is not applied as in span-by-span erection.

Grade 1 – Low viscosity

Grade 2 – Medium viscosity

Grade 3 – Non-sagging consistency