

Evaluation Table

PEP ID:	XXXXX
Manufacturer:	Name of Manufacturer
Product Name:	Name of Product

1015 Epoxy Resin Adhesives

1015 Hardened Concrete to Hardened Concrete

ADOT Standard Specification: 1015, 1015-3(A), 105-3(B)

Responsible Section: Materials Group

Material Property	Specification/ Test Method	Requirement	Results	Pass / Fail
General	1015-1 ASTM C881	Epoxy resin adhesives shall be a two-component system that meets the requirements of ASTM C881.		
Properties	1015-1	All epoxy resin adhesives must be resistant to the action of weathering, moisture, acids, alkalis, and other environmental factors.		
Labeling	1015-1.01	Each container shall be clearly labeled with the product type and identification code, component designation (A or B), manufacturer's name, date of manufacture, batch or lot number, all directions for use, and such warnings or precautions concerning the contents as may be required by State or federal laws or regulations.		
Pot Life	1015-3(A)	The pot life of the material shall be determined in accordance with AASHTOT237, Part I.		
Hardened Concrete to Hardened Concrete	1015-3(B) ASTM C881	Epoxy resin adhesive to be used for adhering or bonding hardened concrete to hardened concrete shall conform to the requirements of ASTM C881, Type I for non load bearing application and Type IV for load bearing applications.		

Viscosity, Pa-s (P)	1015-3(B) ASTM C881	Grade 1: 2.0 (20) max (Type I & IV)		
		Grade 2: 2.0 (20) min (Type I & IV)		
		Grade 2: 10 (100) max (Type I & IV)		
Consistency, mm (in), max	1015-3(B) ASTM C881	Grade 3: 6.0 (1/4) (Type I & IV)		
Gel Time, minutes*	1015-3(B) ASTM C881	30 (Type I & IV)		
Bond Strength, min, MPa (psi)	1015-3(B) ASTM C881	2 days (moist cure): 7.0 (1,000) (Type I & IV)		
		14 days (moist cure): 10.0 (1,500) (Type I & IV)		
Absorption, 24hr, max %	1015-3(B) ASTM C881	1 (Type I & IV)		
Heat Deflection temperature, min °C (°F)	1015-3(B) ASTM C881	7 days: 50 (120) (Required for Type IV Only)		
Linear Coefficient of shrinkage on cure, max	1015-3(B) ASTM C881	0.005 (Type I & IV)		
Compressive Yield Strength, min, MPa (psi)	1015-3(B) ASTM C881	7 days: 55.0 (8,000) (Type I)		
		7 days: 70.0 (10,000) (Type IV)		
Compressive Modulus, MPa (psi), min	1015-3(B) ASTM C881	1,000 (150,000), min (Type I)		
		1,400 (200,000), min (Type IV)		
Tensile Strength, 7 days min, MPa (psi)**	1015-3(B) ASTM C881	35.0 (5,000) (Type I)		
		50.0 (7,000) (Type IV)		
Elongation at Break, %, min**	1015-3(B) ASTM C881	1 (Type I & IV)		

*Minimum gel time of 5 min when automated proportioning, mixing, and dispensing equipment are used.

**Not Required for Viscosity Grade 3 Systems