

Evaluation Table

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

1015 Epoxy Resin Adhesives

1015 Hardened Concrete to Fresh Concrete

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

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 Fresh Concrete	1015-3(C) ASTM C881	Epoxy resin base materials to be utilized for adhering or bonding freshly mixed concrete to hardened concrete shall conform to the requirements of ASTM C881, Type II for non load bearing application and Type V for load bearing applications.		

Viscosity, Pa-s (P)	1015-3(C) ASTM C881	Grade 1: 2.0 (20) max (Type II & V)		
		Grade 2: 2.0 (20) min (Type II & V)		
		Grade 2: 10 (100) max (Type II & V)		
Consistency, mm (in), max	1015-3(C) ASTM C881	Grade 3: 6.0 (1/4) (Type II & V)		
Gel Time, minutes	1015-3(C) ASTM C881	30 (Type II & V)		
Bond Strength, min, MPa (psi)	1015-3(C) ASTM C881	Freshly Mixed Concrete to Hardened Concrete: 14 days: 10.0 (1,500) (Type II & V)		
Absorption, 24hr, max %	1015-3(C) ASTM C881	1 (Type II & V)		
Heat Deflection Temperature, min, MPa (psi)	1015-3(C) ASTM C881	7 days: 50 (120) (Required for Type V Only)		
Linear Coefficient of shrinkage on cure, max	1015-3(C) ASTM C881	0.005 (Type II & V)		
Compressive Yield Strength, min, MPa (psi) at 7 days	1015-3(C) ASTM C881	7 days: 35.0 (5,000) (Type II)		
		7 days: 55.0 (8,000) (Type V)		
Compressive Modulus, MPa (psi), min	1015-3(C) ASTM C881	600 (90,000), min (Type II)		
		1,000 (150,000), min (Type V)		
Tensile Strength, 7 days min, MPa (psi)*	1015-3(C) ASTM C881	14.0 (2,000) (Type II)		
		40.0 (6,000) (Type V)		
Elongation at Break, %, min*	1015-3(C) ASTM C881	1 (Type II & V)		

*Not Required for Viscosity Grade 3 Systems