

Evaluation Table

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

1015 Epoxy Resin Adhesives

1015 Load Transfer Dowel and Tie-Bar Applications

ADOT Standard Specification: 1015, 1015-2(A), 105-2(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.		
Packaging	1015-2	The anchoring adhesive shall consist of a two component epoxy resin adhesive formula that is packaged in a dual cylinder cartridge that can automatically combine the constituents in the proper proportions.		
Load Transfer Dowel and Tie-Bar Applications	1015-2(B) ASTM C881	Epoxy resin adhesive shall meet the requirements of ASTM C881, Type IV	See below for Type IV Results	

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

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

**Not Required for Viscosity Grade 3 Systems