

November 1, 2019

Pure110+™ Adhesive Anchoring System and ASTM C881 Requirements

The Pure110+ Epoxy adhesive anchoring system meets the requirements of ASTM C 881 and AASHTO M235, Types I, II, IV and V, Grade 3, Classes B & C. The material test results in accordance with ASTM C881 are as follows:

Test	Pure 110+ at 50±2 °F Class B	Pure 110+ at 70±2 °F Class C	ASTM C 881 Requirements	
Consistency, <i>in.</i>	Non-sag	Non-sag	Type IV: 1/4", Grade 3	
Tensile Strength*, <i>psi</i> @7 days (ASTM D 638)	7,500	7,150	Type I: 5,000 psi Type II: 2,000 psi Type IV: 7,000 psi Type V: 6,000 psi	
Compressive Yield Strength, <i>psi</i> @7 days (ASTM D 695)	23,950	22,500	Types I & V: 8,000 psi min Type II: 5,000 psi min Type IV: 10,000 psi min	
Compressive Modulus, <i>psi</i>	325,500	323,750	Types I & V: 150,000 psi min Type II: 90,000 psi min Type IV: 200,000 psi min Type III: 130,000 psi max	
Water Absorption, %, 24hr (ASTM D 570)	0.021	0.023	Types I through IV: Max 1%	
Bond Strength, <i>psi</i> (ASTM C 882)	2 Days (moist cure)	2,790	2,760	Types I through IV: 1,000 psi min
	14 Days (moist cure)	2,995	2,945	Types I through IV: 1,500 psi min
Linear Coefficient of Shrinkage on cure, <i>in/in</i>	0.0026	0.0028	Max 0.005 inches per inch	
Heat Deflection Temperature, °F @7 days	148	145	Type IV & V: 120°F min	
Thermal Compatibility	Passes	Passes	Type III: passes test	
Gel time, <i>min</i>	63	42	30 minutes min	
Viscosity	Not Required	Not Required	No Requirement for Grade 3	
Elongation at Break, %	3.1	4.4	Types I, II, IV & V.....1%	

If there are any questions or if you require any additional information, please contact us.