

**ANCHORS & FASTENERS**

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Pure110+® Adhesive Anchoring System and ASTM C881 Requirements

The Pure220+ 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)		11,757	13,392	Types I & V: 8,000 psi min Type II: 5,000 psi min Type IV: 10,000 psi min
Compressive Modulus, <i>psi</i>		1,790,431	2,283,314	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)	2,461	2,762	Types I through IV: 1,000 psi min
	14 Days (moist cure)	2,945	3,386	Types I through IV: 1,500 psi min
Linear Coefficient of Shrinkage on cure, <i>in/in</i>		0.001	0.001	Max 0.005 inches per inch
Heat Deflection Temperature, °F @ 7 days		138	138	Type IV & V: 120°F min
Thermal Compatibility		Passes	Passes	Type III: passes test
Gel time, <i>min</i>		162	30	30 minutes
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.