

**ANCHORS & FASTENERS**

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May 11, 2023

Pure220+™ Adhesive Anchoring System and ASTM C881 Requirements

The Pure220+ epoxy adhesive anchoring system meets the requirements of ASTM C881 and AASHTO M235, Types I, II, IV and V, Grade 3, Classes B & C.

The material test results in accordance with ASTM C881 and AASHTO M235 are as follows:

Test		Pure 220+ Class B 50 °F	Pure 220+ Class C 73 °F	ASTM C881 / AASHTO M235 Requirements
Consistency, <i>in</i> (ASTM C881)		0.0	0.0	Max 1/4", Grade 3 All types
Compressive Yield Strength, <i>psi</i> 7 days (ASTM D695)		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> (ASTM D695)		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
Water Absorption, %, 24hr (ASTM D570)		0.11	0.11	Types I through IV: Max 1%
Bond Strength, <i>psi</i> (ASTM C882)	2 Days (moist cure) Hardened to hardened concrete	2,461	2,762	Types I & IV: 1,000 psi min
	14 Days (moist cure) Hardened to hardened concrete	2,945	3,386	Types I & IV: 1,500 psi min
	14 Days Fresh to hardened concrete	2,558	2,558	Types II & V: 1,500 psi min
Linear Coefficient of Shrinkage on cure, <i>in/in</i> (ASTM D2556)		0.001	0.001	Max 0.005 inches per inch
Heat Deflection Temperature, °F, 7 days (ASTM D648)		138	138	Type IV & V: 120°F min
Gel time, <i>min</i> (ASTM C881)		162	30	30 minutes min

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