

FIVE STAR® BONDING ADHESIVE

PERFORMANCE SPECIFICATION

- A. The bonding material shall be 100% solids, multi-purpose, two component, moisture insensitive, structural epoxy adhesive that meets ASTM C 881, Types I, II, IV and V, Grade 2, Classes B & C. The material shall be used to bond fresh concrete to hardened concrete or steel. The manufacturer shall be ISO 9001 certified and have at least five years experience in the manufacture of epoxy adhesives.
- B. The bonding material shall meet all the following typical performance criteria when cured at 73°F (23°C):

1.	Compressive Properties, ASTM D 695	
	Compressive Strength	10000 psi (69.0 MPa)
	Compressive Modulus of Elasticity	3.45 x 10 ⁵ psi (2381 MPa)
2.	Bond Strength, ASTM C 882	
	2 Days	2500 psi (17.3 MPa)
	14 Days	2900 psi (20.0 MPa)
3.	Heat Deflection Temp., ASTM D 648	125°F (52°C)
4.	Tensile Properties, ASTM D 638	
	Tensile Strength	7000 psi (48.3 MPa)
	% Elongation at Break	3.8%
5.	Gel Time, ASTM C 881	30 minutes
6.	Water Absorption, ASTM D 570	0.61%

The data shown above reflect typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result. Test methods are modified where applicable.

- C. The structural epoxy bonding material shall be Five Star Bonding Adhesive, as manufactured by Five Star Products, Inc., Fairfield, Connecticut.