

## FIVE STAR® LV ADHESIVE

### PERFORMANCE SPECIFICATION

- A. The injection and sealing material shall be 100% solids, moisture insensitive, structural epoxy adhesive that meets ASTM C 881, Types I, and IV, Grade 1, Classes B & C. The material shall be used to fill cracks or as an epoxy patching mortar binder. The manufacturer shall be ISO 9001 certified and have at least five years experience in the manufacture of epoxy adhesives.
- B. The injection material shall meet all the following typical performance criteria when cured at 73°F (23°C):

1.	Compressive Properties, ASTM D 695	
	Compressive Strength	10600 psi (73.2 MPa)
	Compressive Modulus of Elasticity	2.10 x 10 <sup>5</sup> psi (1488 MPa)
2.	Flexural Strength, ASTM D 790	9600 psi (66.2 MPa)
3.	Bond Strength, ASTM C 882	
	2 Days	2400 psi (16.6 MPa)
	14 Days	3600 psi (24.8 MPa)
4.	Heat Deflection Temperature, ASTM D 648	122°F (50°C)
5.	Tensile Properties, ASTM D 638	
	Tensile Strength	7000 psi (48.3 MPa)
	% Elongation at break	2.96%
6.	Gel Time, ASTM C 881	45 minutes
7.	Water Absorption, ASTM D 570	0.85%

*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 adhesive shall be Five Star LV Adhesive, as manufactured by Five Star Products, Inc., Fairfield, Connecticut.