

FIVE STAR® FLUID EPOXY

PERFORMANCE SPECIFICATION

- A. The epoxy adhesive shall be a two component, premeasured, prepackaged system consisting of a resin/aggregate preblend and hardener. The manufacturer shall be ISO 9001 certified and have at least five years experience in the manufacture of epoxy adhesives.
- B. The epoxy adhesive material shall meet all the following typical performance criteria when cured at 73°F (23°C):

1. Compressive Strength, ASTM C 579 A*

Compressive Strength	
6 Hours	9000 psi (62.1 MPa)
1 Day	15000 psi (103.5 MPa)
Compressive Modulus	
6 Hours	0.4 x 10 ⁶ psi (2.8 x 10 ³ MPa)
1 Day	0.6 x 10 ⁶ psi (4.1 x 10 ³ MPa)
2. Creep, ASTM C 1811, 1 Year
400 psi (2.8 MPa) 10 x 10⁻³ in/in (mm/mm) at 140°F (60°C)
3. Tensile Strength, ASTM C 307 2500 psi (17.3 MPa)
4. Flexural Strength, ASTM C 580 6800 psi (46.9 MPa)
5. Flexural Secant Modulus,
ASTM C 580 1.0 x 10⁶ psi (6.9 x 10³ MPa)
6. Coefficient of Expansion,
ASTM C 531 32 x 10⁻⁶ in/in/°F (57.6 x 10⁻⁶ mm/mm/°C)
7. Bond to Concrete, ASTM C 882 Concrete Failure

** Rate of loading 0.125 inches per minute.*

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 epoxy adhesive shall be Five Star Fluid Epoxy as manufactured by Five Star Products, Inc., Fairfield, CT.