

FIVE STAR® HTR GROUT

PERFORMANCE SPECIFICATION

- A. Nonshrink cementitious grout shall be a preproportioned, prepackaged, precision cement-based grout requiring only the addition of potable water. The grout shall not contain metallic aggregate, expansive cement, or gas generating additives such as aluminum powder. The grout shall contain an air release aggregate to generate positive expansion. The manufacturer shall be ISO 9001 certified and have at least five years experience in the manufacture of precision cement-based grouts.
- B. The grout material shall meet all the following typical performance criteria when cured at 73°F (23°C):

1.	Early Height Change, ASTM C 827	Positive Expansion
2.	Compressive Strength, ASTM C 109	
	3 Hours	3500 psi (24.2 MPa)
	7 Days	5500 psi (38.0 MPa)
3.	Compressive Strength, ASTM C 109	
	After Exposure to 20 Cycles	
	at 1000°F (538°C)	5000 psi (34.5 MPa)
4.	Bond Strength, ASTM C 882	
	7 Days	2500 psi (17.3 MPa)

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 high temperature nonshrink cementitious grout shall be Five Star HTR Grout, manufactured by Five Star Products, Inc., Fairfield, Connecticut.