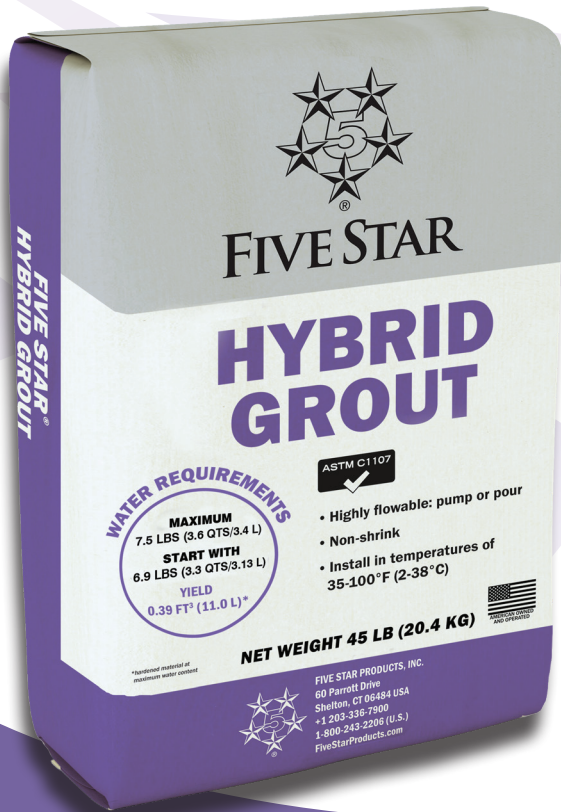


# HYBRID GROUT

High-performance, nonmetallic, non-shrink cementitious grout

## USE FOR

Heavy Static Load Machinery  
Low Vibration Equipment  
Structural Steel and Precast Concrete  
Tanks, Vessels, Generators and Small Pumps  
Wind Turbines  
Seismic Applications  
High-Load Rebar, Anchors and Dowels  
High-Load Infrastructure



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Build on our strength

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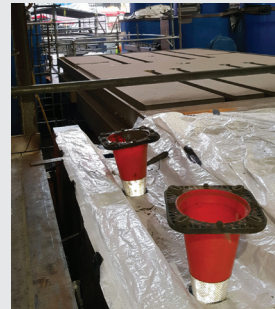
FIVE STAR

## Innovation

**FIVE STAR® HYBRID GROUT** is a fusion of many key properties found in Five Star® specialty grouts. It achieves **superb flowability while reaching high early and ultimate compressive strengths.**

**Extend your installation season:** Because Five Star Hybrid Grout **can be installed over a wide temperature range (35-100°F/2-38°C)**, you can extend your installation season by allowing you to grout during cold and hot weather months.

**Top of its class:** Five Star Hybrid Grout **reaches one of the highest effective bearing areas (EBA) in the industry** with the use of Air Release Technology per ACI 351.1 R, and meets the performance requirements of ASTM C 1107-02 Grades A, B and C, ASTM C 1107-14a, and CRD-C 621-93 specifications.



### TYPICAL PROPERTIES

	35°F (2°C)	72°F (22°C)	100°F (38°C)
Compressive Strength, ASTM C 942 (C109 Restrained); psi (MPa)			
8 Hour	—	4,000 (27.6)	5,000 (34.5)
1 Day	2,000 (13.8)	7,500 (51.7)	8,000 (55.2)
7 Days	8,000 (55.2)	13,000 (89.6)	13,000 (89.6)
28 Days	12,000 (82.7)	16,500 (113.8)	17,000 (117.2)
Bond Strength, ASTM C 882 / 28 Days, concrete failure; psi (MPa)	4,000 (27.6)	4,000 (27.6)	4,000 (27.6)
Early Height Change, ASTM C 827	0.0 to 2.0%	0.0 to 2.0%	0.0 to 2.0%
Hardened Height Change, ASTM C 1090	0.0 to 0.2%	0.0 to 0.2%	0.0 to 0.2%
Effective Bearing Area, ASTM C 1339	≥ 95%	≥ 95%	≥ 95%
Flow, ASTM C 1339; 1" height, seconds	≤ 60	≤ 60	≤ 60
Consistency Flow Test 2 x 4 in. (50 x 100 mm) cylinder, inches (mm)	8 - 12 (200-300)	8 - 12 (200-300)	8 - 12 (200-300)
Freeze/Thaw, ASTM C 666, Durability Factor	≥95%	≥95%	≥95%
Chloride Permeability, ASTM C 1202 28 days; rating (coulombs)	Very low (<1,000)	Very low (<1,000)	Very low (<1,000)
Set Time, Initial, ASTM C 191, minutes	180	120	60
Modulus of Elasticity, ASTM C 469 / 28 Days 3 x 6 in. (75 x 150 mm) cylinder, neat, psi (GPa)	—	4.5 x 10 <sup>6</sup> (31.0)	—

SPECIFICATIONS SUBJECT TO CHANGE

### FIVE STAR PRODUCTS, INC.

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