

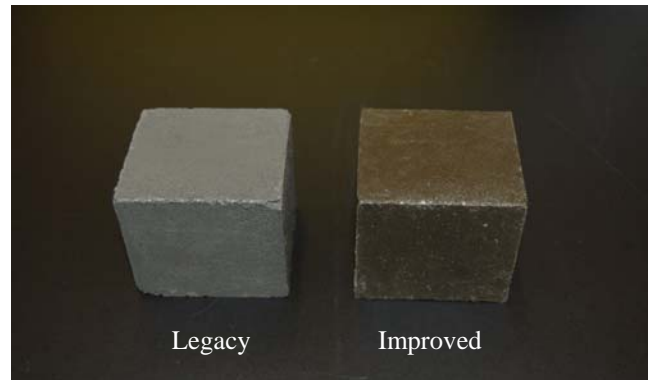


PRODUCT UPDATE BULLETIN 111

Improved HP & DP Epoxy Grouts

Color Change

Five Star® has improved HP & DP Epoxy Grouts with more environmentally friendly formulations in response to the company's desire to be environmental stewards and responsible community stakeholders. There is no change in performance specifications. The only appreciable difference is in the color due to a change in pigmentation ingredients.



HP EPOXY GROUT TYPICAL PROPERTIES AT 70°F (21°C)

	HP Epoxy Grout (Standard)		HP Epoxy Grout (High Flow)	
Clearances	4 to 6 inches (100 - 150 mm)		1 to 4 inches (25 - 100 mm)	
Height Change, ASTM C 827, at 90°F (32°C)	Positive Expansion		Positive Expansion	
Effective Bearing Area	95%		95%	
Creep, ASTM C 1181, 1 year 400 psi (2.8 MPa) 140°F (60°C)	1.2 x 10 ⁻³ in/in (mm/mm)		2.0 x 10 ⁻³ in/in (mm/mm)	
Compressive Strength, ASTM C 579 B*	Standard Compressive Strength psi (MPa)	Standard Compressive Modulus psi (MPa)	High Flow Compressive Strength psi (MPa)	High Flow Compressive Modulus psi (MPa)
16 Hours	11000 (75.9)	1.6 x 10 ⁶ (11.0 x 10 ³)	10000 (69.0)	1.5 x 10 ⁶ (10.4 x 10 ³)
1 Day	15000 (103.5)	2.0 x 10 ⁶ (13.8 x 10 ³)	14000 (96.6)	1.9 x 10 ⁶ (13.1 x 10 ³)
7 Days	16500 (113.9)	2.2 x 10 ⁶ (15.2 x 10 ³)	16000 (110.4)	2.1 x 10 ⁶ (14.5 x 10 ³)
Post cured at 140°F (60°C)	17500 (120.8)	2.5 x 10 ⁶ (17.2 x 10 ³)	17000 (117.3)	2.3 x 10 ⁶ (15.9 x 10 ³)

DP EPOXY GROUT TYPICAL PROPERTIES AT 70°F (21°C)

	DP Epoxy Grout (Standard)		DP Epoxy Grout (High Flow)	
Clearances	1 to 18 inches (25 - 457 mm)		1/2 to 9 inches (13 - 220 mm)	
Height Change, ASTM C 827, at 90°F (32°C)	Positive Expansion		Positive Expansion	
Effective Bearing Area	95%		95%	
Creep, ASTM C 1181, 1 year 400 psi (2.8 MPa) 140°F (60°C)	3.7 x 10 ⁻³ in/in (mm/mm)		4.3 x 10 ⁻³ in/in (mm/mm)	
Compressive Strength ASTM C 579 B*	Standard Compressive Strength psi (MPa)	Standard Compressive Modulus psi (MPa)	High Flow Compressive Strength psi (MPa)	High Flow Compressive Modulus psi (MPa)
1 Day	11000 (75.9)	1.5 x 10 ⁶ (10.4 x 10 ³)	9000 (62.1)	1.4 x 10 ⁶ (9.7 x 10 ³)
7 Days	14000 (96.6)	2.0 x 10 ⁶ (13.8 x 10 ³)	13000 (89.7)	1.9 x 10 ⁶ (13.1 x 10 ³)
Post cured at 140°F (60°C)	17000 (117.2)	2.2 x 10 ⁶ (15.2 x 10 ³)	16000 (110.3)	2.0 x 10 ⁶ (13.8 x 10 ³)

NOTE: PRIOR TO APPLICATION, READ ALL PRODUCT PACKAGING THOROUGHLY. For complete Technical Specifications see applicable data sheet. For more detailed placement procedures, refer to Design-A-Spec™ installation guidelines or call the Five Star Products Engineering and Technical Service Center at (800) 243-2206. For worldwide availability, additional product information and technical support, contact your local Five Star distributor, local sales representative, or you may call Five Star's Engineering and Technical Service Center at (800) 243-2206.