



TECHNICAL BULLETIN 107

Mix Water Requirements

CEMENTITIOUS GROUTS	Weight	Minimum Water	Maximum Water	Notes
Five Star® Grout	50 lbs (22.7 kg)	3.5 qts (3.3 liters)	5.5 qts (5.2 liters)	
Five Star® Grout	100 lbs (45.4 kg)	7.0 qts (6.6 liters)	11.0 qts (10.4 liters)	
Five Star® High Strength Grout	44 lbs (20.0 kg)	3.0 qts (3.3 liters)	4 qts (3.8 liters)	
Five Star® Fluid Grout 100	55 lbs (24.9 kg)	4.0 qts (3.8 liters)	+	To consistency 20 -30 seconds (typically 5.5 - 6 qts.)
Five Star® HTR Grout	50 lbs (22.7 kg)	3.0 qts (2.8 liters)	3.5 qts (3.3 liters)	
Five Star® Instant Grout	55 lbs (24.9 kg)	3.0 qts (2.8 liters)	3.5 qts (3.3 liters)	
Five Star® Special Grout 110	50 lbs (22.7 kg)	3.5 qts (3.3 liters)	5.5 qts (5.2 liters)	
Five Star® Special Grout 110	100 lbs (45.4 kg)	7.0 qts (6.6 liters)	11.0 qts (10.4 liters)	
Five Star® Special Grout 120	100 lbs (45.4 kg)	7.0 qts (6.6 liters)	11.0 qts (10.4 liters)	
Five Star® Special Grout 150	50 lbs (22.7 kg)	3.5 qts (3.3 liters)	5.5 qts (5.2 liters)	
Five Star® Special Grout 150	100 lbs (45.4 kg)	7.0 qts (6.6 liters)	11.0 qts (10.4 liters)	
Five Star® Special Grout 400	49 lbs (22.2 kg)	6.0 qts (5.7 liters)	6.5 qts (6.2 liters)	Refer to PTI guide spec for modified flow cone
Five Star® Special Grout 550	100 lbs (45.4 kg)	7.0 qts (6.6 liters)	11.0 qts (10.4 liters)	
Five Star® Construction Grout	50 lbs (22.7 kg)	2.5 qts (2.4 liters)	3.5 qts (3.3 liters)	
NBEC	55 lbs (24.9 kg)	3.0 qts (2.8 liters)	4.0 qts (3.8 liters)	

STRUCTURAL CONCRETE REPAIR	Weight	Minimum Water	Maximum Water	Notes
Five Star® Structural Concrete	50 lbs (22.7 kg)	2.5 qts (2.4 liters)	3.0 qts (2.8 liters)	
Five Star® Structural Concrete ES	50 lbs (22.7 kg)	2.5 qts (2.4 liters)	3.0 qts (2.8 liters)	
Five Star® Structural Concrete S300	50 lbs (22.7 kg)	2.25 qts (2.1 liters)	3.0 qts (2.8 liters)	
Five Star® Structural Concrete V/O	50 lbs (22.7 kg)	3.0 qts (2.8 liters)	4.0 qts (3.8 liters)	
Five Star® Structural Concrete Gunite	50 lbs (22.7 kg)	1.75 qts (1.6 liters)	2.25 qts (2.1 liters)	
Five Star® Structural Concrete Gunite WP	50 lbs (22.7 kg)	2.25 qts (2.1 liters)	3.0 qts (2.8 liters)	
Five Star® Structural Concrete Gunite S300	50 lbs (22.7 kg)	1.75 qts (1.7 liters)	2.5 qts (2.4 liters)	
Five Star® Structural Concrete HTR Shotcrete	50 lbs (22.7 kg)	2.5 qts (2.4 liters)	3.5 (qts (3.3 liters)	
Five Star® Structural Concrete HTR	50 lbs (22.7 kg)	2.5 qts (2.4 liters)	3.0 qts (2.8 liters)	
Five Star® Structural Concrete Underwater HP	50 lbs (22.7 kg)	3.0 qts (2.8 liters)	3.5 qts (3.3 liters)	
Five Star® Structural Concrete Underwater PG	50 lbs (22.7 kg)	3.0 qts (2.8 liters)	4.0 qts (3.8 liters)	

INFRASTRUCTURE/ COMMERCIAL	Weight	Minimum Water	Maximum Water	Notes
Five Star® Highway Patch	50 lbs (22.7 kg)	2.25 qts (2.1 liters)	3.0 qts (2.8 liters)	
Five Star® Fast Set Cement	94 lbs (42.6 kg)	**	**	

COATINGS	Weight	Minimum Water	Maximum Water	Notes
Five Star® Waterproofing	50 lbs (22.7 kg)	1.5 + 1.5 qts (1.4 + 1.4 liters)	2.0 + 2.0 qts (1.9 + 1.9 liters)	2.0 qts. water + 2.0 qts Five Star® Liquid (1.4 liters water + 1.4 liters Five Star® Liquid)
Five Star® AC Coat	16 lbs (7.2 kg)	1.0 qts (.95 liters)	1.5 qts (1.4 liters)	

- 1) All the products above should be mixed to a recommended consistency.
- 2) Cement grouts may use less than minimum posted water for dry pack consistency.

** Water requirements for Five Star® Cement Systems are typically based upon project specific mix designs with water-cement ratios ranging from 0.30 to 0.45 (maximum); also available in 2500 lb (1134 kg) bulk sacks.

Contact Five Star's Engineering and Technical Service Center at (800) 243-2206 for more information.

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