



# 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	50 lbs (22.7 kg)	2¾ qts (2.6 liters)	3¼ qts (3.1 liters)	
Five Star® Fluid Grout 100	55 lbs (24.9 kg)	4.0 qts (3.8 liters)	+	To consistency 20-30 seconds (typically 5¼ – 5½ 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)	

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)

The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown may result. Test methods are modified where applicable.

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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 Gunitite	50 lbs (22.7 kg)	1.75 qts (1.6 liters)	2.25 qts (2.1 liters)	
Five Star® Structural Concrete Gunitite WP	50 lbs (22.7 kg)	2.25 qts (2.1 liters)	3.0 qts (2.8 liters)	
Five Star® Structural Concrete Gunitite 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)	

All the products above should be mixed to a recommended consistency.

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.

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