

TECHNICAL DATA

DESCRIPTION: **Gunite 7000SC** Shotcrete Mortar is a single component shotcrete requiring only the addition of potable water. **Gunite 7000SC** is a 3:1 combination of portland cement meeting ASTM C 150 (I/II) and well graded concrete sand meeting ASTM C 33. This is a dry process formulation.

USE FOR: Bridges and roadways, tunnels and piers, manhole and sewer repairs, elevated concrete slabs, parking decks, piers and bulkheads

- ADVANTAGES:**
- Most economical blend
 - Low permeability
 - High build
 - Low rebound
 - Use on vertical or overhead repairs
 - Use with dry process equipment

	3 DAYS	7 DAYS	28 DAYS
Compressive Strength (ASTM C 109 Modified)	2000 psi (13.7 MPa)	4000 psi (27.4 MPa)	5500 psi (37.7 MPa)
Bond Strength (ASTM C 882 Modified)	400 psi (2.7 MPa)	1200 psi (8.2 MPa)	1800 psi (12.3 MPa)
Flexural Strength (ASTM C 348)		500 psi (3.4 MPa)	700 psi (5.0 MPa)
Splitting Tensile (ASTM C 496)		400 psi (2.7 MPa)	1000 psi (7.0 MPa)
Unit Weight	135 lb/ft ³ (2.275 kg/m ³)		
Drying Shrinkage (ASTM C 157 Modified)	-.025 % (Dry Cured)		
Scaling Resistance 50 cycles (ASTM C 672)	none		
Rapid Chloride Permeability (ASTM C 1202)	<850 Coulombs		
Air Content	5 % (+/- 1.5%)		
Set Time	Initial Set 4 hours	Final Set 6 hours	

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APPLICATION: Add potable water to **Gunite 7000SC** at a rate of 10% water. Use normal dry process shotcrete methods. Pre-dampen surface to a surface saturated, dry condition with clean water for good bond. No special curing is required. Always follow practices of ACI 506-R85: "Guide to Shotcrete" for application and curing methods.

LIMITATIONS: **Gunite 7000SC** should be used when ambient temperatures are at 40°F (4°C) and rising. Lower temperatures produce a slower set; higher temperatures produce a faster set. For temperatures below 40°F (4°C) consult with the manufacturer for special cold weather placement provisions which include but are not limited to conditioning of the materials, use of heated mix water and thermal protection. In hot weather use chilled water for mixing.

PACKAGING: **Gunite 7000SC** is packaged in 80lb bags. Each 80lb bags yields approximately .63 ft³ when mixed with 8lbs of potable water.

CAUTION: **WARNING! CONTAINS FREE SILICA & PORTLAND CEMENT. DO NOT BREATHE DUST.** May cause delayed lung injury (silicosis). Follow OSHA safety and health standards for crystalline silica (quartz). Cement powder or freshly mixed concrete grout or mortar may cause skin injury. Avoid contact with skin and wash exposed skin areas promptly with water. If any cement powder or mixture gets into the eyes, rinse immediately and repeatedly with water and get prompt medical attention.