

### TECHNICAL DATA

**DESCRIPTION:** Gunite 7001 is a single component, micro silica modified shotcrete mortar with ½" polypropylene, alkali resistant fibers, available in both Wet (7001w) or Dry Formulations (7001d). Fibers increase tensile and flexural strength, while reducing drying shrinkage. Air entrainment gives added resistance to freeze thaw cycling. Gunite 7001 features micro silica to increase density and lower permeability. Special additives greatly reduce dust and rebound. A single component formulation, Gunite 7001 is easy to use, requiring only the addition of potable water at the jobsite.

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

- ADVANTAGES:**
- Available in either Wet Process (7001w) or Dry Process Formulations (7001d)
  - Fibers provide superior tensile and flexural strengths and reduced drying shrinkage
  - Low permeability
  - High build
  - Low rebound
  - Use on vertical or overhead repairs

	1 DAY	7 DAYS	28 DAYS
Compressive Strength (ASTM C 109 Modified)	3000 psi (20.6 MPa)	6000 psi (41.3 MPa)	8000 psi (55.0 MPa)
Bond Strength (ASTM C 882 Modified)	900 psi (6.2 MPa)	1500 psi (10.3 MPa)	2300 psi (15.8 MPa)
Flexural Strength (ASTM C 348)		700 psi (4.8 MPa)	1900 psi (13.0 MPa)
Splitting Tensile (ASTM C 496)		400 psi (2.7 MPa)	1000 psi (7.0 MPa)
Unit Weight	135 lb/ft <sup>3</sup> (2.275 kg/m <sup>3</sup> )		
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	4 % ( +/- 1.5%)		
Set Time		Initial Set 2 hours	Final Set 4 hours

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**APPLICATION:** Add potable water to Gunitite 7001 at a maximum rate of 10% water (123 fluid ounces per 80 lb bag) by weight to Gunitite 7001. 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. For detail application instructions refer to US Concrete Guide Specification Guide.7001.

**LIMITATIONS:** Gunitite 7001 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:** Gunitite 7001 is packaged in 50 lb, 80 lb or 3000 lb bags. Each 80 lb bag yields approximately .63 ft<sup>3</sup> when mixed with 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.