

### TECHNICAL DATA

**DESCRIPTION:** **Gunite 7001pd** is polymer modified shotcrete mortar with micro silica and ½” polypropylene, alkali resistant fibers. **Gunite 7001pd** features polymer modification for increased bond strength and micro silica for higher density and lower permeability. Fibers give **Gunite 7001pd** added tensile and flexural strength while reducing drying shrinkage. An integral corrosion inhibitor protects reinforcing steel. **Gunite 7001pd** has excellent durability and air entrainment gives added resistance to freeze thaw cycling. Special additives greatly reduce dust and rebound. Easy to use, **Gunite 7001pd** requires only the addition of potable water at the job.

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

- ADVANTAGES:**
- Dry polymers greatly reduce rebound and dust
  - Fibers provide superior tensile and flexural strengths and reduced drying shrinkage
  - High compressive and bond strengths
  - Low permeability
  - High build
  - Use on vertical or overhead repairs
  - For dry process equipment

	3 DAYS	7 DAYS	28 DAYS
<b>Compressive Strength</b> (ASTM C 109 Modified)	3000 psi (20.6 MPa)	4000 psi (27.4 MPa)	7000 psi (48.0 MPa)
<b>Bond Strength</b> (ASTM C 882 Modified)	900 psi (6.2 MPa)	1500 psi (10.3 MPa)	2000 psi (14.0 MPa)
<b>Flexural Strength</b> (ASTM C 348)		500 psi (3.4 MPa)	1900 psi (13.0 MPa)
<b>Splitting Tensile</b> (ASTM C 496)		400 psi (2.7 MPa)	1000 psi (7.0 MPa)
<b>Unit Weight</b>	135 lb/ft <sup>3</sup> (2.275 kg/m <sup>3</sup> )		
<b>Drying Shrinkage</b> (ASTM C 157 Modified)	-.025 % (Dry Cured)		
<b>Scaling Resistance 50 cycles</b> (ASTM C 672)	none		
<b>Rapid Chloride Permeability</b> (ASTM C 1202)	<850 Coulombs		
<b>Air Content</b>	5 % (+/- 1.5%)		
<b>Set Time</b>	<b>Initial Set</b> 2 hours	<b>Final Set</b> 4 hours	

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**APPLICATION:** Add potable water to **Gunite 7000pd** at a maximum rate of 10% water (123 fluid ounces per 80 lb bag) by weight to **Gunite 7000pd**. 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:** **Gunite 7001pd** 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 7001pd** is packaged in 80 lb. (36.37 Kilo) 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.