

FIVE STAR STRUCTURAL CONCRETE® GUNITE S300

PERFORMANCE SPECIFICATION

- A. The concrete repair material shall be a preblended, prepackaged cement-based mortar suitable for application by dry process shotcrete requiring only the addition of potable water. The material shall not contain any chlorides or lime other than amounts contained within the hydraulic composition. The manufacturer shall be ISO 9001 certified and have at least five years experience in the manufacture of cement-based concrete repair materials.
- B. The concrete repair material shall meet all the following typical performance criteria when cured at 73°F (23°C):

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| 1. | Compressive Strength, ASTM C 109
1 Day | 3500 psi (24.2 MPa) |
| 2. | Bond Strength, ASTM C 882
7 Days | 2000 psi (13.8 MPa) |
| 3. | Chloride Ion Permeability, ASTM C 1202
28 Days | Very Low |
| 4. | Coefficient of Thermal Expansion,
ASTM C 531 | 5.0 x 10 ⁻⁶ in/in/°F
(9.0 x 10 ⁻⁶ mm/mm/°C) |

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

- C. The concrete material shall be Five Star Structural Concrete Gunite S300, as manufactured by Five Star Products, Inc., Fairfield, Connecticut.