

FIVE STAR STRUCTURAL CONCRETE® S300

PERFORMANCE SPECIFICATION

- A. The concrete repair material shall be a preblended, prepackaged cement-based mortar 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) |
| | 7 Days | 8000 psi (55.2 MPa) |
| 2. | Bond Strength, ASTM C 882 | |
| | 7 Days | 2300 psi (15.9 MPa) |
| 3. | Length Change, ASTM C 157 | |
| | 28 Days Wet | +0.03% |
| | 28 Days Dry | -0.05% |
| 4. | Chloride Ion Permeability, ASTM C 1202 | |
| | 3 Days | Very Low |
- 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. Five Star Structural Concrete S300 may be extended with clean damp coarse aggregate meeting the requirements of ASTM C 33. Aggregate sample shall be submitted for approval. Contact product manufacturer for aggregate extension guidelines.
- D. The concrete repair material shall be Five Star Structural Concrete S300, as manufactured by Five Star Products, Inc., Fairfield, Connecticut.