

STRUCTURAL CONCRETE® UNDERWATER HP

PERFORMANCE SPECIFICATION

- A. The concrete repair material shall be a underwater hand applied, pre-packaged cement-based mortar suitable for hand placement underwater requiring only the addition of potable water. The material shall not contain any chlorides or lime other than amounts contained within the hydraulic cement composition. The manufacturer shall be ISO 9001 certified and have at least ten years experience in the manufacture of concrete repair materials. The manufacturer shall offer technical services and provide a representative at the jobsite for product training prior to product installation upon five days advance notice.
- 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 | |
| | 3 Hours | 3,000 psi (20.7 MPa) |
| | 1 Day | 4,000 psi (27.6 MPa) |
| | 7 Days | 5,000 psi (34.5 MPa) |
| | 28 Days | 5,500 psi (37. MPa) |
| 2. | Underwater Bond Strength, ASTM C 882 | |
| | 7 Days | 1,150 psi (7.9 MPa) |
| 3. | 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 in the field. Test methods are modified where applicable.

- C. An acceptable product which meets these criteria is:

Five Star Structural Concrete® Underwater HP

As manufactured by Five Star Products, Inc., Fairfield, CT 06825
(203) 336-7900.