

## FIVE STAR® CONCRETE PATCH

### 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 performance criteria when cured at 73°F (23°C) extended with pea gravel 70% by weight:

1.	Compressive Strength, ASTM C 39	
	1 Day	2500 psi (17.3 MPa)
	7 Days	6000 psi (41.4 MPa)
	28 Days	7000 psi (48.3 MPa)
2.	Bond Strength, ASTM C 882	
	7 Days	2000 psi (13.8 MPa)
3.	Length Change, ASTM C 157	
	28 Days Wet	+0.03%
	28 Days Dry	-0.05%
4.	Chloride Ion Permeability, ASTM C 1202	
	28 Days	Very Low
5.	Freeze/Thaw Resistance, ASTM C 666A	
	Relative Durability Factor	94%

*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. For pours greater than one inch (25 mm) in depth, the repair material shall be extended by the addition of coarse aggregate from 60 - 80% by weight. Coarse aggregate shall conform to the requirements of ASTM C 33. Maximum size of coarse aggregate shall not be greater than one-third the depth of the repair. Aggregate samples shall be submitted for approval.
- D. The concrete repair material shall be Five Star Concrete Patch, as manufactured by Five Star Products, Inc., Fairfield, Connecticut.