



TECHNICAL DATA SHEET

SPEED CRETE® PM

One Component, Polymer Modified Mortar

03930

CONCRETE REHABILITATION
CONCRETE

TAMMS INDUSTRIES
NOVEMBER 2003 (Replaces 1/01)

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- DESCRIPTION:** SPEED CRETE PM is a one component, polymer modified, ready-to-use, cement based concrete and masonry patching compound that requires only potable water for mixing.

FEATURES AND BENEFITS

- *Single component, polymer modified*
- *Easy mixing and handling*
- *Excellent workability*
- *Contains a migratory corrosion inhibitor*
- *Patch from featheredge to 2-3/4 inch*
- *After initial set, may be shaved to conform to contours of the surrounding surface*
- *Develops high strength and tenacious bond*
- *Excellent resistance to freeze-thaw and weathering*

APPLICATIONS

- *Repair interior or exterior, above and below grade vertical and overhead surfaces without forming*

- COMPOSITION AND MATERIAL:** SPEED CRETE PM is a proprietary formulation of portland cement, finely graded aggregates and special polymer modifiers used to increase adhesion, strength, and aid curing.

Material Properties at 75°F	
ASTM C-266, Gilmore	
Initial Set, approx. mins.	15
Final Set, approx. mins.	40
Working Time, minutes	10-15
Compressive Strength, PSI (ASTM C-109)	
1 Day	2,500
7 Day	6,500
28 Days	7,000
Flexural Strength, PSI (ASTM C-78)	
7 Day	650
28 Days	1,300
Shear Bond Strength, PSI (ASTM C 882)	
28 Day	2,650
Splitting Tensile Strength, PSI (ASTM C-496)	
7 Day	450
28 Day	550
ASTM (C-666)	
Freeze Thaw Resistance	320 cycles, 99.0% RDF
Typical results obtained under laboratory conditions.	

- SURFACE PREPARATION:** Surface must be structurally sound, clean, free of loose or deteriorated concrete, dust, dirt, and all contaminants. For best results edges of area to be patched should be vertical, chipped or steep angle cut to a minimum depth of 1/8 inch. Clean and prime exposed reinforcing steel with DURALPREP A. C. If substrate is not absorptive, abrade as necessary to obtain proper profile for good adhesion. Flush area with clean water to remove all dust and dampen the concrete. Wipe off any excess water or puddles prior to placement of product. The surface should be saturated surface dry (SSD) during placement of product. Apply a scrub coat of the no slump mortar by hand or trowel to the prepared surface or use DURALPREP A. C. as a bonding agent.

- MIXING INSTRUCTIONS:** SPEED CRETE PM will require approximately 4.0 to 4.25 quarts of potable water per 50 lb bag (22.68 kg) to achieve the proper mix consistency. Pour the measured amount of water into a clean mixing container, then add the measured amount of SPEED CRETE PM, and thoroughly mix for 2-3 minutes to a stiff, no slump, putty-like consistency. Mix small quantities of SPEED CRETE PM in a clean pail with a hand trowel. Use a rotary mixer with rubber tip blades for mixing quantities up to 100 lbs. (45.4 kg).

- APPLICATION TECHNIQUES:** Apply a scrub coat of no slump mortar to the prepared substrate. Before scrub coat dries apply SPEED CRETE PM. Do not retemper the scrub coat. To ensure complete bond with the entire surface, force the SPEED CRETE PM firmly into the patch area by hand or with a trowel. Place the SPEED CRETE PM so that the material conforms to the contour of the surrounding surface. Always finish the SPEED CRETE PM toward the common bonding edge between the patching material and the existing surface. For patches deeper than 2-3 inches apply in multiple lifts. Score surface between lifts. Cure material using standard curing practices. For additional information, contact Tamms Technical Service.

- CURING:** Follow standard ACI guidelines for curing. In case of high temperature, high wind, or low humidity causing rapid surface drying, use wet burlap/plastic or a W/B curing compound. Pretesting the curing compound is recommended.

- COVERAGE:** One 50 lb (22.68 kg) bag yields approximately 0.5 cu ft (0.014 cu.m).

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8. **CLEAN-UP INSTRUCTIONS:** Clean application tools and mixing equipment with water immediately following use.

9. **CAUTIONS:** Use only potable water with SPEED CRETE PM. Do not retemper or add sand to SPEED CRETE PM. Do not overwork or overtrowel patching material. Do not apply at temperatures below 45°F.

10. **PACKAGING:** 50 lb poly-lined bags.
Storage: Covered storage away from all moisture.
Shelf life: Minimum 1 year in protected storage.
Freight Class: Class 55

11. **ENVIRONMENTAL AND SAFETY PRECAUTIONS:** Product contains portland cement which is alkaline on contact with water. Do not breathe dust. May cause delayed lung injury (Silicosis). IARC reports crystalline silica may cause cancer in humans. Irritating to eyes and skin. Avoid splashing into eyes or contact with skin. In case of eye contact, flood eyes repeatedly with potable water and call a physician. **DO NOT RUB EYES.** Wash skin thoroughly after handling and before smoking or eating. Use adequate ventilation. **KEEP AWAY FROM CHILDREN AND ANIMALS.**

12. **TECHNICAL SERVICE:** For application procedures or surface conditions not specified above, please contact:

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