



TECHNICAL DATA SHEET

SPEED CRETE® GREEN LINE

Fast Setting Horizontal Cement Based Patching Material

03930

CONCRETE REHABILITATION
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TAMMS INDUSTRIES
NOVEMBER 2003 (Replaces 1/01)

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1. **DESCRIPTION:** SPEED CRETE GREEN LINE is a fast setting, semi-flowable, high strength patching material requiring only potable water for mixing.

FEATURES AND BENEFITS

- *Semi-flowable*
- *Initial set in 6-15 minutes*
- *Final set in 20 minutes*
- *Open to traffic in 1 hour*
- *High strength*
- *Excellent durability*
- *Meets or exceeds requirements of ASTM C928*

APPLICATIONS

- *Rapid patching of horizontal concrete surfaces*
- *Interior or exterior, above and below grade*
- *Repair material for expressways, bridge decks, streets, loading docks, and parking decks*

2. **COMPOSITION AND MATERIAL:** SPEED CRETE GREEN LINE is a proprietary formulation of blended portland cements, finely processed selected aggregates, and specific chemical additives.

MATERIAL PROPERTIES AT 75°F

ASTM C109			
Compressive Strength, PSI	1 Hour	2,000	
	24 Hour	4,500	
	7 Day	4,860	
	28 Day	6,375	
ASTM C266			
Set Time, Gilmore	Initial	6-15 Min	
	Final	20 Min	
ASTM C78			
Flexural Strength, PSI	24 hour	510	
	7 Day	890	
	28 Day	948	
ASTM C1042			
Shear Bond Strength, PSI	24 Hour	939	
	3 Day	1,092	
ASTM C666			
Freeze Thaw Durability Factor	310 Cycles	96.00%	
ASTM C157			
Length Change Moist Cure	28 Day	0.061%	
Length Change Air Cure	28 Day	-0.054%	
Difference between Moist & Air Cure = 0.115% (0.20% allowable)			
ASTM C672			
Scaling Resistance	25 Cycles	0% loss	
Typical results obtained under laboratory conditions.			

3. **SURFACE PREPARATION:** Surface must be structurally sound, clean, free of loose or deteriorated concrete, dust, dirt, and all contaminants. Vertically cut all edges of patch area to a minimum thickness of 1 inch (2.54 cm). Clean and prime exposed steel and reinforcing with DURALPREP A.C. If substrate is not absorptive, abrade as necessary to ensure proper bonding. Prewet prepared area with potable water immediately before application. Wipe up excess water and puddles on horizontal surfaces to prevent dilution of the GREEN LINE. When temperatures are 35°F and rising prewet area, and refer to Cold Weather Installation procedures.

4. **MIXING INSTRUCTIONS:** SPEED CRETE GREEN LINE will require approximately 1 gallon (3.8L) potable water per 50 lb (22.68 kg) bag. Pour a measured amount of water into a clean mixing container, add the measured amount of GREEN LINE, and thoroughly mix for **no more than 60 seconds**. Initially, the mixture will seem very stiff, but near the end of the mixing time, it will "relax" and achieve a semi-flowable consistency. **Do not add additional water or retemper. Too much water weakens the mixture.** For large projects, use a rotary mixer with rubber tipped blades. Pour the required amount of water into the mixer, and add the GREEN LINE. Mix just long enough to achieve the proper consistency, **but not more than 60 seconds**. Do not mix more than 100 lbs (45.36 kg) at one time. Small amounts of SPEED CRETE, such as 5 to 10 pounds (2.27 - 4.54 kg), may be readily mixed in a clean pail with a hand trowel. SPEED CRETE GREEN LINE, mixed as directed, will achieve initial set in 6 to 15 minutes, and final set within 20 minutes. To fill patches 2 inches (5.1 cm) deep or greater, add clean, dry, 3/8 inch (9.53 mm) size pea rock or chip stone to the SPEED CRETE. The mix ratio must not exceed 40 pounds (18.1 kg) of pea rock to each 50 pound (22.68 kg) bag or pail of SPEED CRETE.

Mixing procedure: Start mixer, load water, load rock, and then add SPEED CRETE GREEN LINE.

Mix no more than 60 seconds. Do not add sand. Do not use liquids other than potable water for mixing. Clean mixing equipment between batches.

5. **APPLICATION TECHNIQUES:** SPEED CRETE GREEN LINE is specifically designed for horizontal patching. A minimum one inch (2.54 cm) application

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depth is required for traffic bearing surfaces, 3/4" (1.91cm) for others. Pour mixed material into prepared area to be patched, and immediately screed the surface. Trowel and seal surface before SPEED CRETE becomes firm, using standard surface finishing techniques. Cure SPEED CRETE GREEN LINE using normal curing methods. **Do not overwork, overtrowel, or featheredge SPEED CRETE.**

6. **COLD WEATHER INSTALLATION:** Application at temperatures below 40°F extends the set time. Heating the patch area until warm, using warm water for mixing and tenting or insulating the patch area after application will assist in reaching faster strength development. **Do not use direct heat on the patch after its installation.**
7. **COVERAGE:** One 50 lb (22.68 kg) bag yields approximately 0.5 cu ft. (0.014 cu m).
8. **CLEAN-UP INSTRUCTIONS:** Clean application tools and mixing equipment with water immediately after use. Hardened SPEED CRETE is difficult to remove.
9. **CAUTIONS:** Mix no more than 60 seconds. Clean mixing equipment between batches. Do not featheredge. SPEED CRETE is a cementitious material and requires 28 days to fully cure. Do not apply any type of surface sealer over SPEED CRETE until it is adequately cured. For patching sloped, vertical, overhead, or other areas that cannot contain a semi-flowable material, use SPEED CRETE RED LINE. Test adhesion of coatings which may be applied to SPEED CRETE GREEN LINE.
10. **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.**

11. **PACKAGING:** 50 lb (22.68 kg) Poly lined bags and 50 lb (22.68 kg) DOT Approved Plastic Pails.
Storage: Covered storage away from all moisture.
Shelf life: Minimum 1 year in protected storage.
Freight Class: Class 55.

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

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