

SPEED CRETE GREEN LINE

FAST SETTING HORIZONTAL CEMENT BASED REPAIR MATERIAL

DESCRIPTION

SPEED CRETE GREEN LINE is a fast-setting, semi-flowable, high strength repair material requiring only potable water for mixing. SPEED CRETE GREEN LINE is a proprietary formulation of blended portland cements, finely processed selected aggregates, and specific chemical additives designed for horizontal repair.

PRIMARY APPLICATIONS

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

FEATURES/BENEFITS

- Semi-flowable
- Initial set in 6 to 15 minutes
- Final set in 20 minutes
- Open to traffic in 1 hour
- High strength
- Excellent durability

TECHNICAL INFORMATION

Material Properties @ 75°F (24 °C)

Compressive Strength , psi (MPa) ASTM C 109	
1 hour	2,000 (13.8)
24 hours	4,500 (31.0)
7 days	4,860 (33.5)
28 days	6,375 (43.9)

Set Time, Gilmore ASTM C 266

Initial	6 to 15 min
Final	20 min

Flexural Strength, psi (MPa) ASTM C 78

24 hour	510 (3.5)
7 day	890 (6.1)
28 day	948 (6.5)

Shear Bond Strength, psi (MPa) ASTM C 1042

24 hour	939 (6.5)
3 day	1,092 (7.5)

Freeze Thaw Durability Factor ASTM C 666

310 cycles	96.00%
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Length Change ASTM C 157

Moist cure (28 days)	+0.061%
Air cure (28 days)	-0.054%
Difference between moist & air cure =	0.115%
(0.20% allowable)	

Scaling Resistance ASTM C 672

25 cycles	0% loss
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Typical results obtained under laboratory conditions

PACKAGING

SPEED CRETE GREEN LINE is packaged in 50 lb (22.7 kg) poly-lined bags

SHELF LIFE

1 year in original, unopened package

SPECIFICATIONS/COMPLIANCES

Meets or exceeds requirements of ASTM C 928

COVERAGE/YIELD

One 50 lb (22.7 kg) bag yields approximately 0.50 ft³ (0.014 m³)

DIRECTIONS FOR USE

Surface Preparation: Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and all other contaminants. Mechanically abrade the surface to achieve a surface profile equal to CSP 7 - 8 in accordance with ICRI Guideline 310.2. Properly clean profiled area.

Priming: Clean and prime exposed steel with DURALPREP A.C. Concrete should be primed with a spray or brush coat of DURALPREP A.C. The primer coat of DURALPREP AC must be allowed to thoroughly dry prior to the application of the repair mortar. Alternately, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of SPEED CRETE GREEN LINE. The repair must be made before the scrub coat dries out.



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An RPM Company



Mixing: SPEED CRETE GREEN LINE will require approximately .95 to 1 gal (3.6 to 3.8 L) of potable water per 50 lb (22.68 kg) bag. Pour a measured amount of water into a clean mixing container, add the SPEED CRETE 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. 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 SPEED CRETE GREEN LINE. Mix just long enough to achieve the proper consistency, but not more than 60 seconds. Do not mix more than 100 lb (45.36 kg) at one time. Small amounts of SPEED CRETE GREEN LINE, such as 5 to 10 pounds (2.27 to 4.54 kg), may be mixed in a clean pail with a hand trowel. To fill repairs 2" (5.1 cm) deep or greater, add clean, damp, 3/8" (9.5 mm) size pea gravel to the SPEED CRETE GREEN LINE. The mix ratio must not exceed 40 lb (18.1 kg) of pea gravel to each 50 lb (22.7 kg) bag. **Mixing Procedure:** Start mixer, load water, load pea gravel, and then add SPEED CRETE GREEN LINE. Mix no more than 60 seconds. Do not add sand. **Important:** Use potable water for mixing. Clean mixing equipment between batches.

Application: A minimum 1" (2.54 cm) application depth is required for traffic bearing surfaces, 3/4" (1.91 cm) for others. Pour mixed material into prepared area to be repaired, and immediately screed the surface. Trowel the surface before it becomes firm, using standard finishing techniques. Cure SPEED CRETE GREEN LINE using normal curing methods. Do not overwork, over-trowel, or featheredge SPEED CRETE GREEN LINE.

Cold Weather Installation: Application at temperatures below 40°F (4°C) extends the set time. Heating the repair area until warm, using warm water for mixing and tenting or insulating the repair area after application will assist in reaching faster strength development. Do not use direct heat on the repair after its installation.

CLEAN-UP

Clean application tools and mixing equipment with water immediately after use. Hardened SPEED CRETE GREEN LINE is difficult to remove.

PRECAUTIONS/LIMITATIONS

- Store covered storage away from all moisture.
- Mix no more than 60 seconds.
- Clean mixing equipment between batches.
- Do not featheredge.
- In all cases, consult the Material Safety Data Sheet before use.

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