

# SPEED CRETE® RED LINE

## FAST SETTING PATCHING MATERIAL

### DESCRIPTION

**SPEED CRETE RED LINE** is a fast setting, cement-based concrete and masonry patching compound. **SPEED CRETE RED LINE** is a proprietary formulation of blended portland cements, finely processed selected aggregates, and specific chemical additives. **SPEED CRETE RED LINE**, when combined with the correct amount of water, undergoes a chemical "hyper hydration" and produces a stable, low permeability, cementitious matrix.

### PRIMARY APPLICATIONS

- Interior and exterior
- Vertical, overhead and horizontal repairs
- Used at no slump consistency
- Outstanding repair material for concrete pipe, curbs, sidewalks, formed and precast concrete

### FEATURES/BENEFITS

- Initial set in 8 to 10 minutes
- Final set within 20 minutes
- Can be "shaved" to desired shape
- High strength
- Excellent durability
- Compatible with Galvanic Anodes

### TECHNICAL INFORMATION

#### Material Properties at 75°F (24°C)

#### Compressive Strength, psi (MPa) ASTM C 109

24 Hour	2,550 (17.6)
7 Day	5,290 (36.5)
28 Day	6,100 (42.1)

#### Set Time, ASTM C 266

Initial	8 Min
Final	20 Min

#### Tensile Strength, psi (MPa) ASTM C 190

7 Day	309 (2.1)
28 Day	395 (2.7)

#### Flexural Strength, psi (MPa) ASTM C 78

28 Day	918 (6.3)
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#### Volumetric Resistivity 5,250 ohm/cm

#### Shear Bond Strength, psi (MPa) ASTM C 1042

24 Hour	906 (6.2)
7 Day	1,084 (7.5)

#### Freeze Thaw Durability Factor ASTM C 666

310 Cycles	96.75%
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#### Shrinkage 50% RH ASTM C 157

28 Day	-0.143%
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#### Expansion 100% RH ASTM C 157

28 Day	0.077%
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#### Scaling Resistance ASTM C 672

25 Cycles	0% loss
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#### Chloride Permeability ASTM C 1202

1300 coulombs	low
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### PACKAGING

**SPEED CRETE RED LINE** is packaged in 50 lb (22.7 kg) poly-lined bags, and 50 lb (22.7 kg) pails.

### SHELF LIFE

1 year in original, unopened package.

### COVERAGE

One 50 lb (22.7 kg) bag yields approximately 0.5 ft<sup>3</sup> (0.014 m<sup>3</sup>). With the addition of 40 lbs (18.14 kg) of 3/8" (0.95 cm) pea gravel the yield is approximately 0.7 ft<sup>3</sup> (0.02 m<sup>3</sup>).

### 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 6 - 8 in accordance with ICRI Guideline 310.2. Properly clean profiled area. **Priming:** Clean and prime exposed steel with DURALPREP AC. Concrete should be primed with a spray or brush coat of DURALPREP AC. Alternately, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of **SPEED CRETE RED LINE**. The repair must be made before the scrub coat dries out.



## The Euclid Chemical Company

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An **RPM** Company



**Mixing:** SPEED CRETE RED LINE will require approximately 5 to 5.5 qts (4.7 to 5.2 L) of potable water per 50 lb (22.7 kg) bag to achieve the proper mix consistency. Pour the measured amount of water into a clean mixing container, then add the SPEED CRETE RED LINE, and thoroughly mix for no more than 60 seconds to a stiff, no slump, putty-like consistency. Mix small quantities of SPEED CRETE RED LINE 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). To fill patches 2" (5.1 cm) deep or greater, add clean, pre-dampened, 3/8" (.96 cm) size pea gravel. Do not use limestone aggregate. The mix ratio must not exceed 40 lbs. (18 kg) of pea gravel to each 50 lb (22.7 kg) bag or pail of SPEED CRETE RED LINE. **Mixing procedure:** Start mixer, load water, load pea gravel, and then load the SPEED CRETE RED LINE. Mix for no more than 60 seconds.

**Application:** To ensure complete bond with the entire surface, force the SPEED CRETE RED LINE firmly into the SSD area by hand or with a trowel. Slightly overfill the patch, and following initial set, shave the material to conform to the contour of the surrounding surface. Always shave SPEED CRETE RED LINE toward the common bonding edge between the patching material and the existing surface. Cure material using standard curing practices. For additional information, contact your local Euclid Chemical representative.

**Cold Weather Installation:** Application at temperatures below 40°F(4°C) 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 higher strength development. Do not use direct heat on the patch after its installation.

## CLEAN-UP

Clean application tools and mixing equipment with water immediately following use.

## PRECAUTIONS/LIMITATIONS

- Keep in covered storage away from all moisture.
- Mix no more than 60 seconds.
- Use only potable water with SPEED CRETE RED LINE.
- Mix to a stiff, putty-like, no slump consistency.
- Do not re-temper or add sand to SPEED CRETE RED LINE.
- Do not overwork or over-trowel patching material.
- Do not feather-edge SPEED CRETE RED LINE on horizontal surfaces
- In all cases, consult the Material Safety Data Sheet before use.

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