



EUCLID CHEMICAL

# SPEED CRETE BLUE LINE

## RAPID SETTING UNDERWATER CONCRETE REPAIR MORTAR

UNDERWATER

### DESCRIPTION

SPEED CRETE BLUE LINE is a proprietary formulation of blended portland cements, finely processed select aggregates, and specific chemical additives designed to provide a rapid set, particularly for underwater use. SPEED CRETE BLUE LINE undergoes a chemical "hyper hydration" and produces a very stable, low permeable, cementitious matrix.

### PRIMARY APPLICATIONS

- Underwater and below grade repairs
- Vertical, overhead and horizontal restoration
- Outstanding material for repair of dams, piers, reservoirs, pilings, seawalls, tunnels, sewer pipe and other underwater surfaces

### FEATURES/BENEFITS

- Initial set in 3 to 5 minutes
- Underwater cure
- High strength
- Durable in fresh and salt water
- Placed without forming, at no slump consistency
- Can be "shaved" to desired contour

### TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

<b>Compressive Strength</b> psi (MPa) ASTM C 109	
24 hours .....	3,200 (22.1)
7 days .....	4,000 (27.6)
28 days .....	6,015 (41.5)
<b>Set Time</b> Gilmore ASTM C 266	
Initial .....	approx. 3 to 5 min
Final .....	approx. 20 min
<b>Flexural Strength</b> psi (MPa) ASTM C 348	
7 days .....	600 (4.1)
28 days .....	700 (4.8)

<b>Freeze Thaw Durability Factor</b> ASTM C 666	
300 cycles .....	98.05%
<b>Shrinkage</b> ASTM C 928	
7 days .....	-0.020%
28 days .....	-0.060%
<b>Scaling Resistance</b> ASTM C 672	
25 cycles .....	0% loss
<b>Bond Strength</b> psi (MPa) ASTM C 321	
1 day .....	80 psi (0.55)
7 days .....	140 psi (0.96)
28 days .....	165 psi (1.14)

### PACKAGING

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

### SHELF LIFE

18 months in original, unopened package

### COVERAGE/YIELD

Approximately 0.47 ft<sup>3</sup> (0.013 m<sup>3</sup>) when mixed with 5.5 qt (5.2L) of water per 50 lb (22.7 kg) bag

### 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 - 7 in accordance with ICRI Guideline 310.2. Properly clean profiled area. **Priming:** Clean and prime exposed steel above water with DURALPREP AC. Concrete that is and will remain above water throughout the repair should be primed with a spray or brush coat of DURALPREP AC. DURALPREP AC must be allowed to fully dry prior to the application of SPEED CRETE BLUE LINE. Alternatively, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of SPEED CRETE BLUE LINE. The repair must be made before the scrub coat dries out.

SPEED CRETE BLUE LINE

 MASTER FORMAT #:  
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**Mixing:** SPEED CRETE BLUE LINE will require approximately 5 to 5.5 qt (4.7 to 5.2 L) of potable water per 50 lb (22.7 kg) bag or pail to achieve the proper mix consistency. Pour the measured amount of water into a clean container. Add the measured amount of SPEED CRETE BLUE LINE, and thoroughly mix for no more than 60 seconds to a stiff, no slump, putty-like consistency. Because of fast initial set time, do not mix more than 50 lb (22.7 kg) at a time. Mix small quantities of SPEED CRETE BLUE LINE in a clean pail with a hand trowel.

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

## CLEAN-UP

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

## PRECAUTIONS/LIMITATIONS

- Store material undercover and away from all moisture.
- Mix no more than 60 seconds.
- Use only potable water with SPEED CRETE BLUE LINE.
- Mix to a stiff, putty-like, no slump consistency.
- Do not re-temper or add sand to SPEED CRETE BLUE LINE.
- Minimum application 3/4 in. (19 mm), maximum application is 3 in. (7.6 cm) per lift.
- Do not overwork.
- Do not featheredge SPEED CRETE BLUE LINE.
- Clean mixing equipment between batches.
- In all cases, consult the Safety Data Sheet before use.

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