

# SPEED CRETE® BLUE LINE

## FAST SETTING UNDERWATER CEMENT BASED PATCHING MATERIAL

### DESCRIPTION

**SPEED CRETE BLUE LINE** is a proprietary formulation of blended portland cements, finely processed selected aggregates, and specific chemical additives designed to provide a fast set, particularly for underwater use. SPEED CRETE BLUE LINE undergoes a chemical "hyper hydration" and produces a very stable, low permeable, cementitious matrix, when combined with the correct amount of water.

### 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

- Rapid set
- Initial set in 3 to 5 minutes
- Underwater cure
- High strength
- Durable
- Used, without forming, at no slump consistency
- Can be "shaved" to desired contour

### TECHNICAL INFORMATION

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

<b>Compressive Strength</b> psi (MPa) ASTM C 109	
24 hours .....	3,500 (24.1)
7 days .....	5,460 (37.6)
28 days .....	6,015 (41.5)
<b>Set Time</b> Gilmore ASTM C 266	
Initial .....	3 to 5 min
Final .....	20 min
<b>Tensile Strength</b> psi (MPa) ASTM C 190	
7 day avg .....	315 (2.2)
28 day avg .....	410 (2.8)
<b>Flexural Strength</b> psi (MPa) ASTM C 78	
28 day avg .....	964 (6.6)

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

24 hour avg .....	921 (6.3)
7 day avg .....	1,268 (8.7)

#### Freeze Thaw Durability Factor ASTM C 666

300 cycles .....	98.05%
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#### Shrinkage ASTM C 157

Initial 7 days .....	-0.053%
Final 28 days .....	-0.160%
Expansion initial 7 days .....	0.047%
Final 28 days .....	0.104%

#### Scaling Resistance ASTM C 672

25 cycles .....	0% loss
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<b>Chlorides</b> ASTM D 1411 .....	0.01%
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### 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

1 year in original, unopened package.

### COVERAGE/YIELD

Approximately 0.5 ft<sup>3</sup> (0.01 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 - 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. Alternately, 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.

UNDERWATER

SPEED CRETE® BLUE LINE

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**Mixing:** SPEED CRETE BLUE LINE will require approximately 5 to 5.5 quarts (4.7 to 5.26 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 lbs (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

- Covered storage 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" (19 mm), maximum application, 3" (7.62 cm) per lift.
- Do not overwork or overtrowel patching material.
- Do not featheredge SPEED CRETE BLUE LINE.
- Clean mixing equipment between batches.
- In all cases, consult the Material Safety Data Sheet before use.

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