



# SPEED CRETE BLUE LINE

**RAPID SETTING, CEMENT BASED REPAIR MORTAR FOR UNDERWATER**

UNDERWATER

SPEED CRETE BLUE LINE

MASTER FORMAT #: 09 06 09

## 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

**Material Properties @ 24°C**

**Compressive Strength** MPa ASTM C 109

24 hours .....	22.1
7 days.....	27.6
28 days.....	41.5

**Set Time Gilmore** ASTM C 266

Initial .....	approx. 3 to 5 min
Final.....	approx. 20 min

**Flexural Strength** MPa ASTM C 348

7 days.....	4.1
28 days.....	4.8

**Freeze Thaw Durability Factor** ASTM C 666

300 cycles .....	98.05%
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**Shrinkage** ASTM C 928

7 days.....	-0.020%
28 days.....	-0.060%

**Scaling Resistance** ASTM C 672

25 cycles .....	0% loss
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## PACKAGING

**SPEED CRETE BLUE LINE** is packaged in 22.7kg poly-lined bags, and 22.7kg buckets.

## SHELF LIFE

1 year in original, unopened package.

## COVERAGE

Approximately 13L when mixed with 5.2L of water per 22.7kg bag

## DIRECTIONS FOR USE

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**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. 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.

**Mixing:** SPEED CRETE BLUE LINE will require approximately 4.7 to 5.2 L of potable water per 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 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

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Clean tools and equipment with soap and water before material hardens.

## PRECAUTIONS / LIMITATIONS

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- The use of supplementary cementitious materials are not recommended for use with a dry shake hardener
- For additional abrasion resistance beyond that offered by SURFLEX E consider the use of EUCO-PLATE HD an iron aggregate floor hardener.
- Sufficient manpower is required to produce consistent results on large placements.
- Important: Air-entraining admixtures may complicate finishing operations and cause blistering. Contact The Euclid Chemical Company if applied over air entrained concrete with more than 3% total air content.
- Store product in a dry place.
- In all cases, consult the Safety Data Sheet before use.

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