



SPEED CRETE BLUE LINE

RAPID SETTING UNDERWATER CONCRETE REPAIR MORTAR **EUCLID CHEMICAL**

PACKAGING

50 lb (22.7 kg) bag
Code: TR5102650
50 lb (22.7 kg) pail
Code: TR5102750

APPROXIMATE YIELD

50 lb (22.7 kg) unit: 0.47 ft³ (0.013 m³)
per unit when mixed with 5.5 quarts
(5.2 L) of potable water.

MINIMUM/MAXIMUM APPLICATION THICKNESS

3/4 to 3 inches (1.9 to 7.6 cm)

CLEAN UP

Clean tools and equipment with water before the material hardens.

SHELF LIFE

18 months in original, unopened package

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.

PRODUCT CHARACTERISTICS

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

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

TECHNICAL INFORMATION

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

Test Method	Test Property	Values
ASTM C109	Compressive Strength	24 hours3200 psi (22.1 MPa) 7 days4000 psi (27.6 MPa) 28 days6015 psi (41.5 MPa)
ASTM C266	Set Time	Initial Setapproximately 3 to 5 minutes Final Setapproximately 20 minutes
ASTM C348	Flexural Strength	7 days 600 psi (4.1 MPa) 28 days 700 psi (4.8 MPa)
ASTM C666	Freeze/Thaw Durability	300 cycles 98.05%
ASTM C928	Shrinkage	7 days -0.020% 28 days -0.060%
ASTM C672	Scaling Resistance	25 cycles 0% loss
ASTM C882	Bond Strength	7 days1000 psi (6.9 MPa) 28 days1450 psi (10.0 MPa)

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.

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.

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.

Rev. 05.22

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