

# SPEED REPAIR UW

## Quick Setting Under Water Grade Concrete Patching Mortar

Fast Setting, cement based repair mortar for making repairs under water. Minimum application thickness of ¾" and maximum thickness of 3" per lift.

*{Note to Specifier: The paragraphs below are meant to be incorporated into Parts 2 and 3 of a standard CSI 3 Part Format specification, project's General Structural Notes or directly onto the plans. They must be carefully reviewed by a qualified design professional and edited to meet the particular requirements of the project at hand, assure compliance with any governing building codes, and coordinate with other specification sections and drawings.}*

### PART 2.0: PRODUCT

#### {PRODUCT}

#### 2. CEMENTITIOUS REPAIR MORTAR

- A. Fast setting cementitious repair mortar designed specifically for placement under water. Product shall exhibit the following characteristics:
  - 1. Compressive Strength minimum 3,000 psi at 24 hour, 4,000 psi at 7 days and minimum 6,000 psi 28 days per ASTM C 109
  - 2. Flexural Strength minimum 600 psi at 7 days, and 700 psi at 28 days per ASTM C 348
  - 3. Linear Shrinkage maximum -0.01% at 7 days and -0.054% at 28 days per ASTM C 157
  - 4. Freeze Thaw Resistance of 310 Cycles...96.0% dynamic modulus per ASTM C 666
  - 5. Product:
    - a) Euclid Chemical Company (The); Euco-Speed Crete Blue Line  
[www.euclidchemical.com](http://www.euclidchemical.com)
- B. Manufacturer shall have ISO 9001 Quality Certification. To ensure compatibility all admixtures shall be from the same manufacturer.
- C. To ensure compatibility bonding agent and curing compound if used shall be from same manufacturer as repair mortar.

#### {UNDERWATER REPAIR CURING NOTE 1}

#### 2. CURING

*{Note to Specifier: Euclid Chemical suggests curing exposed surfaces of this repair mortar with a high solids curing compound. If desired choose a recommended product from the data sheet and insert here. Guide spec language for these products can be found by accessing each product separately through this web site. Be advised that liquid curing compounds are typically not compatible with future*



*penetrating sealer, adhesives or coatings. If such treatments are intended the specifier should insert language for a dissipating resin curing compound such as KUREZ DR VOX, a removable curing compound such as KUREZ RC, or insert language for proper moisture retaining curing methods meeting ACI 308. Duration of such cure should be minimum 3 days.}*

## **PART 3.0: EXECUTION**

### **3.\_\_\_\_ SURFACE PREPARATION**

#### **{CONCRETE REMOVAL NOTE}**

- A. Concrete Removal: Remove all loose and unsound concrete per ICRI Guideline 310.1R “Guide for Surface Preparation”
1. Unsound concrete surface areas shall have perimeter boundaries saw cut to minimum depth of ½” inch or less if such depth will cause saw to come in contact with embedded reinforcing steel. Saw cuts shall be made perpendicular to the concrete surface and all concrete removal boundaries shall be straight and aligned parallel to opposite boundary edges resulting in repair areas that are rectangular in shape.
  2. All concrete shall be removed from within repair boundary to minimum depth of ½” inch. Provide a surface with suitable profile for bond, as defined in repair mortar manufacturer’s written recommendations. If delaminations, cracking, or unsound materials exist beyond minimum removal depth, then removal shall continue until all unsound, delaminated, or cracked concrete has been removed from cavity.

#### **{CONCRETE PREP AND CLEANING NOTE}**

- B. Concrete Preparation and Cleaning: Areas to receive concrete repair shall be structurally sound and free from deteriorated concrete, dust, dirt, debris, loosened concrete, paint, oil, efflorescence, laitance, and other contaminants, and shall have a minimum Concrete Surface Profile CSP equal to that recommended by the repair mortar manufacturer per ICRI Guideline 310.2.

### **3.\_\_\_\_ REPAIR MORTAR APPLICATION:**

#### **{TROWEL APPLIED REPAIR MORTAR APPLICATION}**

- A. Repair Mortar Trowel Applied: Mix and apply Repair Mortar per manufacturer’s recommendations within the open time of the product scrub coat or any bonding agents.-Finish to level of surrounding concrete surface utilizing techniques recommended by manufacturer.

### **3.\_\_\_\_ CURING**

#### **{REPAIR MORTAR CURING EXECUTION}**

*{Note to Specifier: Euclid Chemical suggests curing exposed surfaces of this repair mortar with a high solids curing compound. If desired choose a recommended product from the data sheet and insert here. Guide spec language for these products can be found by accessing each product separately through this web site. Be advised that liquid curing compounds are typically not compatible with future penetrating sealer, adhesives or coatings. If such treatments are intended the specifier should insert language for a dissipating resin curing compound such as KUREZ DR VOX, a removable curing compound such as KUREZ RC, or insert language for proper moisture retaining curing methods meeting ACI 308. Duration of such cure should be minimum 3 days.}*





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601 NORTH 5TH AVE • KANKAKEE, IL • 60901  
630-257-5060 [SPECCO.com](http://SPECCO.com)

