

**SECTION 03 0130
MAINTENANCE OF CAST-IN-PLACE CONCRETE**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Premium Plus – Low Slump Patching and Repair Compound.
 - 1. Use Cementitious type at UZIN NC 182.

1.02 REFERENCE STANDARDS

- A. ASTM F710 - "Standard Practice for Preparing Concrete Floors To Receive Resilient Flooring".
- B. ASTM F2170 - "Standard Test Method for Determining Relative Humidity in Concrete Slabs Using in-situ Probes".
- C. ASTM F1869 - "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride".
- D. ASTM C109 "Standard Test Method for Compressive Strength of Hydraulic Cement Mortars"
- E. ASTM C150 - "Standard Specification for Portland Cement".

1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's data sheets documenting physical characteristics and product limitations of underlayment materials. Include information on surface preparation, environmental limitations, and installation instructions.

1.04 QUALITY ASSURANCE

- A. Applicator Qualifications: Company specializing in performing the work of this section, and approved by manufacturer.
- B. Installer Qualifications: An authorized representative or INSTALL® (International Standards and Training Alliance) certified installer or equal, who is trained and approved by manufacturer.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Keep dry and protect from direct sun exposure, freezing, and ambient temperature greater than 105 degrees F (41 degrees C).

1.06 MOCK-UP

- A. Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Prepare mock-up in location designated by Architect.
 - 2. Area: 6 ft by 6 ft (2 m by 2 m).
- B. Mock-up may remain as part of the Work.

1.07 FIELD CONDITIONS

- A. Do not install underlayment until floor penetrations and peripheral work are complete.
- B. Maintain minimum ambient temperatures of 50 degrees F (10 degrees C) 24 hours before, during and 72 hours after installation of underlayment.

1.08 WARRANTY

- A. All UZIN Classic materials are provided with our limited 10-year warranty. Additionally, approved UZIN product systems are eligible for our Classic + Plus 10 warranty. Please visit our website at us.uzin.com for additional information and downloadable literature.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. UZIN, a brand of Uzin Utz North America, Inc. NC 182 Premium Plus – Low Slump Patching and Repair Compound

and Repair Compound. www.us.uzin.com

2.02 MATERIALS

- A. Cementitious Underlayment: Blended cement mix, that when mixed with water in accordance with manufacturer's directions will produce Low Slump Patching and Repair Compound with the following properties:
 - 1. Compressive Strength: Minimum 4300 psi (29.647 MPa) after 28 days, tested per ASTM C109.
 - 2. Flexural Strength: Minimum 1000 psi (6.89476 MPa) after 28 days, tested per ASTM C348.
 - 3. Thickness: Capable of thicknesses from feather edge to maximum NO DEPTH LIMITATION inch (____mm).
- B. Water: Potable and not detrimental to underlayment mix materials.
- C. Primer:
 - 1. Gypsum Concrete: Two coat application of UZIN PE 260 Primer (diluted to absorbency requirement to seal substrate).
 - 2. Standard Absorbent Concrete: UZIN PE 260 Primer (diluted to absorbency requirement to seal substrate).
 - 3. Extremely Absorbent Concrete: Two coat application of UZIN PE 260 Primer (diluted to absorbency requirement to seal substrate).
 - 4. Wood: UZIN PE 260 Primer (undiluted).
 - 5. Metal: UZIN PE 414 or PE 460 (seek technical guidance before proceeding).
 - 6. Other Non-Porous Substrates: UZIN PE 280 Primer
- D. Third Party Testing:
 - 1. UZIN patching compounds are regularly tested for compliance regarding their VOC emissions as well as their performance in accordance with ASTM C1708-16 Standard Test Method for Self-leveling Mortars Containing Hydraulic Cements. Please visit our website at us.uzin.com for additional information and downloadable literature.

2.03 MIXING

- A. Site mix materials in accordance with manufacturer's instructions.
- B. Mix 2 - 3 quarts (2 - 2.8 liters) per 20 lbs (9kg.) bag.
- C. Mix vigorously for approx. one minute using a heavy-duty drill and UZIN Flat Cage Mixer. (avg drill speed 300-450 rpm).

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that substrate surfaces are clean, dry, unfrozen, do not contain petroleum byproducts, or other compounds detrimental to underlayment material bond to substrate.

3.02 PREPARATION

- A. Remove substrate surface irregularities. Fill voids and deck joints with filler. Finish smooth.
- B. Vacuum clean surfaces.
- C. Prime substrate in accordance with manufacturer's instructions. Allow to dry.
- D. Close floor openings.

3.03 APPLICATION

- A. Install underlayment in accordance with manufacturer's instructions.
- B. Apply compound onto substrate. Observe working time.
- C. Coverage 1/4" (6 mm) is approx. 11.25 sq. ft. (20 lb. bag)
- D. Product has no depth limitation.

3.04 CURING

- A. Ready for foot traffic after approx. 45 min. (depths \leq 3/8").
- B. Ready for install of common floor coverings after approx. 1 hr (depths \leq 3/8").

3.05 PROTECTION

- A. Protect against direct sunlight, heat, and wind; prevent rapid drying to avoid shrinkage and cracking.
- B. Do not permit traffic over unprotected floor underlayment surfaces.

END OF SECTION