TECHNICAL BULLETIN 111

CONCRETE MOISTURE & VAPOR TRANSMISSION TESTING

MANDATORY CRITERIA

SYSTEMS

- Con-Dek System
- Con-Dek "U" System
- PD Texture Coat System
- Fluid Applied Waterproofing
- Resinyte

PURPOSE:

All Con-Dek, PD Texture Coat, Fluid Applied, and Resinyte™ System Testing was based on a substrate with less than 5% moisture content. The below site testing is required to ensure the substrate to be coated meets these minimum requirements. High moisture content and vapor transmission ratings in the slab will have detrimental results and causes premature failure.

RECOMMENDED VERIFICATION MOISTURE FIELD TESTING BY APPLICATOR:

1. TRAMEX CM/E Moisture Test per ASTM F2170-19a
   a. Confirm Content is less than 5%
2. If moisture exceeds 5% per Tramex CM/E impedance meter, or presence of moisture, contact Pli-Dek for recommendations.

MOISTURE & VAPOR TRANSMISSION PER ASTM TESTING BY OWNER:

1. TRAMEX CM/E Moisture Test <5% per ASTM F2659 - 10(2015) Standard Guide for Preliminary Evaluation of Comparative Moisture Condition of Concrete, Gypsum Cement and Other Floor Slabs and Screeds Using a Non-Destructive Electronic Moisture Meter
   a. Pre-test Conditioning and Preparation:
      i. All artificial heating/drying equipment must be turned off for at least 96 hours before final readings.
      ii. Remove all coverings, adhesive residue, curing compound, sealers, paints, etc. where applicable, exposing a clean, bare, concrete surface 48 hours prior to tests. Use of water-based cleaning products & methods will result in inaccurate readings.
      iii. Don't test in locations subject to direct sunlight or a source of heat or that have been recently rained on.
   b. Testing Procedure:
      i. Turn the meter on and place it on the prepared surface in accordance with the meter Manufacturer's instructions. Calibrate the meter with the included calibration standard. Ensure that the meter batteries are fresh and that the battery condition check has been performed.
      ii. Press the meter directly onto the surface of the material ensuring that all the electrode springs loaded pins are fully compressed. Push on button and Read the moisture measurement.

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iii. Take several readings in close proximity to one another, 3 to 5 readings within an area of 1ft^2 at each location. Note and record the highest value.

iv. Perform at least eight tests for first 1000ft^2 and at least five additional tests for each additional 1000ft^2. Include test locations in the center of the floor within 3ft. of each exterior wall.

v. If moister reading is >5% contact Pli-Dek for recommendations on application of Pli-Dek Vapor Prime systems.

2. **IN THE ABSENCE OF THE TESTING DETAILED ABOVE, THE OWNER ASSUMES FULL LIABILITY.**

MITIGATION OPTIONS:

1. MVER is in excess of 5% per ASTM , install PD Vapor Prime
2. MVER above 6%, contact Pli-Dek for technical guidance.

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