

Technical Bulletin PEC184 Pecora-Deck™ 800 Deck Coating System Field Adhesion Testing

A critical aspect of a successful deck coating application is obtaining adequate coating adhesion to the substrate. The Pecora-Deck™ 802 Base Coats have superior adhesion to concrete and plywood substrates but can be compromised by the surface finishes and curing compounds. Adhesion tests are performed to determine if adequate adhesion can be achieved or if the surface requires special preparation. Adhesion tests should be performed on representative surfaces before substantial work has commenced. The following is the procedure for a field adhesion test.

1. Find a 12 in. x 12 in. inconspicuous area to perform the adhesion test.
2. The concrete test area should be clean and dry with ICRI Concrete Surface Profile (CSP) of 3 to 5.
3. Apply the appropriate primer at a rate of 300 square feet per gallon in a 4 in. x 12 in. test area and let dry 1 hour.
4. Apply 30 mils of Pecora-Deck™ (802 or 802-SP) Base Coat a minimum of 4 inches wide by 12 in. long and install a piece of 2 in x12 in reinforcing fabric with 6” set into the base coat while still wet. Using a putty-knife or blade, tool the reinforcing fabric flat into the base coat and let cure for a minimum of 16 hours.
5. Apply additional 30 mils of base coat a minimum of 4 inches wide by 12” long completely covering the embedded reinforcing fabric.
6. Let the base coat cure for 48 hours, make razor cuts down each side of the reinforcing fabric which was embedded into the base coat and perform a pull test by using a handheld force gauge that measures pounds force (lbf).
7. Attach the reinforcing fabric to the force gauge and pull at 90 degrees to the substrate and record reading.
8. When testing quantitatively a reading of >10 lbf on 1 inch wide test strip OR >20 lbf on 2 inch wide test strip coupled with 100% cohesive failure is desirable. Adhesive failure coupled with <10 lbf on 1 inch wide test strip OR <20 lbf on 2 inch wide test strip would be considered a failing result.
9. Qualitative testing (no use of force gauge) should result in 100% cohesive failure, meaning coating residue is left on 100% of bonded surface with considerable force required to pull off embedded fabric.

Note: Please submit all field results to Pecora Technical Service group for warranty issuance purposes.



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Field Adhesion Test Log / Pecora-Deck™

1. Authorized Pecora Representative: _____
2. Date of Application: _____
3. Coating Applicator: _____
4. Project Reference: _____
 - a. Project Name: _____
 - b. Project Address: _____
5. Primer utilized, product name: _____
6. Base Coat utilized, product name: _____
7. Surface Description:
 - a. Concrete
 - i. Existing/new: _____
 - ii. Age if new: _____
 - iii. Moisture content if known: _____
 - iv. Surface profile (ICRI): _____
 - b. Plywood
 - i. Type: _____
8. Conditions at time of test:
 - a. Date of Adhesion Test: _____
 - b. Temperature, °F: _____
 - c. Humidity, %: _____
 - d. Direct Sunlight - yes/no: _____
9. Quantitative/Qualitative:
 - a. Qualitative :
 - i. % cohesive failure: _____
 - b. Quantitative:
 - i. % cohesive failure: _____
 - ii. PLI (pounds per linear inch width): _____
10. Observations/Notes:

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