



See, Create, Solve

Adhesion Testing: ASTM D4541-02 & D6677-01

TEC Services performed adhesion testing on Storm Greeter at the request of Southern Company, Inc. prior to submitting it to EPRI. The TEC reports are included on the next two pages.

ASTM D4541-02 - In the first round of testing at EPRI, Storm Greeter's results were similar to what TEC found for the D4541 tests. In the second round of tests at EPRI, using a 2 to 3 mil anchor pattern on the test coupons, Storm Greeter reached 500 psi adhesion.

Per Neal Murray, Project Manager at EPRI, the failures during ASTM D4541-02 were as follows:

- **60% adhesion failure** – the adhesive holding the test dolly failed. This has been a common occurrence at both EPRI and TEC. Common adhesives used for this test have a difficult time adhering to the Storm Greeter surface.
- **30% cohesion failure** - Storm Greeter formed a double layer at the point of testing and separated, leaving a layer on the substrate.
- **10% coating failure** – Storm Greeter failed between 450 and 500 psi.

Mr. Murray suggests that Storm Greeter be applied over a 4 to 5 mil anchor pattern to reach higher psi adhesion strengths.

ASTM D6677 – 01 – TEC has performed the X-cut Pull off tests. Storm Greeter scored 10 on every test.