



ecomère Fact Sheet

The Tests:	The Conditions:	The Outcomes:
Electric Power Research Institute (EPRI)		
ASTM D2794-93 (2010)	Impact Test after 1,440 hours of salt spray and 3,000 hours of UV	ecomère passed with no holidays reported.
ASTM D1654-05	Scribe cut, then exposure to cyclic salt spray and soil stress	There were no reports of blistering, loss of adhesion, or rust creepage at the site of the cut.
ASTM D4541	Adhesion test --- coupons with 1 mil anchor profile 60% adhesive failure, 30% cohesive failure, 10% coating failure	Average adhesion measured --- 500 psi EPRI recommends 4 to 5 mil anchor pattern to increase adhesion.
TEC Services --- Atlanta		
ASTM D6677-01	X---cut test through 60 --- 90 mil Storm Greeter coating, a typical ecomère millage	ecomère scored perfect 10's through 3 tests.
Touchstone Labs --- WVa		
ASTM G154-06 & G151-00	UV Test --- 30 days --- tested against the leading industry polyurethane.	ecomère lost 3.3% reflectivity. The polyurethane lost 98.7% reflectivity.
ASTM G85 SWAAT	30 day Salt---Water, Acetic Acid spray	ecomère did not break down or discolor, and the substrate had no rust.
Sun Belt Coatings QA Lab --- TN		
ASTM B117	Salt spray, high temperature and humidity	ecomère stood up to 3,072 hours without failing.
Ovante Research & Development --- Auburn		
Bridging Test	At the request of Southern Company, Inc. --- Coating applied over old polyurethane and rust spots --- 30, 60 & 90 day test under spray at 120F(49C)	ecomère bridged the old polyurethane and never lost adhesion. The rust spot was contained and did not increase.
HVLI---12	12-gauge shotgun blast, steel shot @ 1,250 fps from a distance of 75 feet	The pre-cured ecomère sheet showed light scuffing with no penetration.
Temperature Swing	Coated coupons spent 24 hrs under spray at 120F (49C), and 24 hours at -10F (-23C)	ecomère passed through this cycle 45 times without expanding, contracting, or delaminating.
Alabama DOT --- Orange Beach, AL, at Perdido Pass Bay		
Multi-Environment Test	13 month test --- The 14' coated steel post was attached to a piling in the bay. 6' was immersed in seawater, 2' was in the splash zone, and 6' was in salt air, exposed to UV.	6 months into the test, ALDOT cut a section from the bottom of the post. The coating did not delaminate over the next 7 months. The coating in the splash zone was pristine.
Corrugated Steel Pipe Institute --- "Handbook of Steel Drainage and Highway Construction Products --- 2002", Chapter 8 --- Durability		

The Corrugated Steel Pipe Institute found that, in the case of buried corrugated steel drainage pipe, the **10 mil coating** applied before installation **added 20 to 70 years to the inside (water side)** of the pipe, and **50 to 75 years to the outside (soil side)**. This is the same polymer as ecomère, without ecomère's UV inhibitors and high physical properties. **ecomère is applied at 30 to 125 mil thickness.**

To see these test results in greater detail, go to www.ovantellc.com/ovante---publications/

Ovante, LLC P.O. Box 3184 Tallahassee, FL 32315 334736379558 www.ovantellc.com The methods and equipment discussed are patent pending and the property of Ovante, LLC.