

**Certificate of Analysis**

**Adhesion (Direct Pull)**

Product Name	<b>Elastuff 200</b>
Batch Number	Part A #98634 Part B #98857
Manufacture Date	Part A - 9/17/04 Part B - 9/15/04
Test Date	10/13/04
Application/Date	9/22/04 / 160° F. material temperature at 3000 psi pump pressure
Test Method	ASTM D-4541 Pull Off Strength of Coatings Using Portable Adhesion Tester
Test Conditions	As per ASTM standard. Any deviation reported at end of certificate.

This certificate confirms that the above product was tested as per stated standard specification using calibrated equipment and qualified staff. The following test results were obtained.

Test Results

Substrate	Condition	Specimens	MPa	PSI	Primary MOF
Steel	Dry	4	9.7	1400	Cohesive Coating Failure

Test conditions (if different from standard test conditions) and/or notes
Specimens prepared by securing aluminum dollies with epoxy to coated steel substrate. Aluminum dollies: Diameter = 0.788", Area = 0.487" Measuring the force of separation from the substrate (pull-off strength) performed using DeFelsko PosiTest (model A) portable adhesion tester (lbs / in <sup>2</sup> ). Temperature and Humidity: 75.1° F / 37.1% RH

Results witnessed and verified by a technical representative of GeoEngineers, Inc.



Reviewed by:  
Timothy D. Barber