

Certificate of Analysis

Adhesion (Direct Pull) Concrete

Product Name	Elastuff 320
Batch Number	PartA 042.04 PartB #042.05
Manufacture Date	11/24/04
Test Date	3/21/05
Application/Date	2/17/05 / 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.

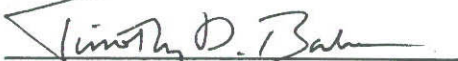
This certificate confirms that the above product was tested as per stated standard specification using calibrated equipment and qualified staff. The following test results were obtained.

Test Results

Substrate	Condition	Specimens	MPa	PSI	Primary MOF
Concrete	Dry	4	2.3	340	Adhesive Coating Failure (A/B)

Test conditions (if different from standard test conditions) and/or notes
Specimens prepared by securing aluminum dollies with epoxy to coated concrete substrate. Aluminum dollies: Diameter = 0.788", Area = 0.487" Samples scored through to substrate around the loading fixture. Measuring the force of separation from the substrate (pull-off strength) performed using DeFelsko PosiTest (model A) portable adhesion tester (lbs / in ²). Temperature and Humidity: 24.5° C / 21.6% RH

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


 Reviewed by:
 Timothy D. Barber

Certificate of Analysis

Adhesion (Direct Pull) Concrete

Product Name	Elastuff 200
Batch Number	Part A #98634 Part B #98857
Manufacture Date	Part A - 9/17/04 Part B - 9/15/04
Test Date	3/21/05
Application/Date	2/17/05 / 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
Concrete	Dry	4	5.2	748	Cohesive Substrate Failure (A)

Test conditions (if different from standard test conditions) and/or notes:
 Specimens prepared by securing aluminum dollies with epoxy to coated concrete substrate.
 Aluminum dollies: Diameter = 0.788", Area = 0.487"
 Samples cut through to substrate around the loading fixture.
 Measuring the force of separation from the substrate (pull-off strength) performed using DeFelsko PosiTest (model A) portable adhesion tester (lbs / in²).
 Temperature and Humidity: 25.1° C / 26.5% RH

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



 Reviewed by:
 Timothy D. Barber

Certificate of Analysis

Adhesion (Direct Pull) Concrete

Product Name	Elastuff 300
Batch Number	Part A: 97881, Part B: 97880
Manufacture Date	21 May 04
Test Date	21 March 05
Application/Date	2 March 05 / 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.

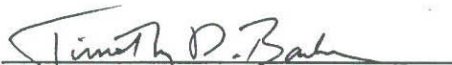
This certificate confirms that the above product was tested as per stated standard specification using calibrated equipment and qualified staff. The following test results were obtained.

Test Results

Substrate	Condition	Specimens	MPa	PSI	Primary MOF
Concrete	Dry	4	3.6	528	Adhesive Coating Failure (A/B)

<p>Test conditions (if different from standard test conditions) and/or notes: Specimens prepared by securing aluminum dollies with epoxy to coated concrete substrate. Aluminum dollies: Diameter = 0.788", Area = 0.487" Samples scored through to substrate around the loading fixture. Measuring the force of separation from the substrate (pull-off strength) performed using DeFelsko PosiTest (model A) portable adhesion tester. (lbs / in²) Temperature and Humidity: 24.5° C / 21.6% RH</p>
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Results witnessed and verified by a technical representative of GeoEngineers, Inc.


 Reviewed by:
 Timothy D. Barber

Certificate of Analysis

Adhesion (Direct Pull) Concrete

Product Name	Elastuff 310
Batch Number	Part A: 97881, Part B: 97880
Manufacture Date	21 May 04
Test Date	21 March 05
Application/Date	2 March 05 / 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
Concrete	Dry	4	3.2	463	Adhesive Coating Failure (A/B)

Test conditions (if different from standard test conditions) and/or notes.
Specimens prepared by securing aluminum dollies with epoxy to coated concrete substrate. Aluminum dollies: Diameter = 0.788", Area = 0.487" Samples cut through to substrate around the loading fixture. Measuring the force of separation from the substrate (pull-off strength) performed using DeFelsko PosiTest (model A) portable adhesion tester. (lbs / in ²) Temperature and Humidity: 25.1° C / 21.5% RH

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



Reviewed by:
Timothy D. Barber