DARAWELD® C is a liquid bonding agent for bonding new to old or new to new concrete. Examples of its many uses include bonding, patching, or re-surfacing concrete floors, walls, beams, columns, pipe, or other structural members.

To show compliance with ASTM C 1059 Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete, tests were conducted in accordance with ASTM C 1042 Standard Test Method for Bond Strength of Latex Systems Used with Concrete by Slant Shear. Robert L. Nelson & Associates, Inc. of Schaumburg, Illinois performed the tests and the results of the tests are given on the reverse side of this technical bulletin.

ASTM C 1042 states that for Type II Latices, a cement and latex slurry be prepared and applied to the hardened specimens. To prepare the cement and latex slurry, an equal parts solution of water and DARAWELD® C was added to the cement and mixed to a workable consistency. This series of tests are identified as “Set 1”. In addition to performing the required tests in ASTM C 1042, a second set of specimens were made using GCP Advanced Technologies’s recommended bonding grout slurry mix design. The bonding grout slurry incorporated 2 parts sand and 5 parts cement and was mixed to a workable consistency with an equal parts solution of water and DARAWELD® C. This series of tests are identified as “Set 2”.

ASTM C 1059 requires that the minimum bond strength for Type II Latices be 1250 psi after immersion. In these tests the average bond strength for Set 1 was 1290 psi and 1780 psi for Set 2.

The results of these tests illustrate that DARAWELD® C complies with the requirements of ASTM C 1059. Furthermore, when GCP Advanced Technologies’s recommended bonding grout mix design is used, performance far exceeds the requirements of the specification.

DARAWELD® C bonding grouts and mortars have been used in a wide variety of applications. For a complete listing of applications for which DARAWELD® C can be used, please see the DARAWELD® C Job Analyzer.
February 9, 2002

REPORT OF TESTS

SUBJECT: 
Giant Shear Bond Strength of 
Daraweld® C

PROJECT:
2002 Part Research

SPECIFICATION:
ASTM C 1583, "Test Method for Bond Strength of Lute Systems Used With Concrete by Giant Shear"

TEST RESULTS

<table>
<thead>
<tr>
<th>Set 1</th>
<th>Set 2</th>
<th>Set 3</th>
<th>Set 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1</td>
<td>360</td>
<td>5</td>
<td>213</td>
</tr>
<tr>
<td>Grout Bond Strength (psi @ 14 days)</td>
<td>Set 1</td>
<td>Set 2</td>
<td>Set 3</td>
</tr>
<tr>
<td>1</td>
<td>1310</td>
<td>1780</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1340</td>
<td>1730</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1280</td>
<td>1840</td>
<td></td>
</tr>
<tr>
<td>Average</td>
<td>1290</td>
<td>1780</td>
<td></td>
</tr>
</tbody>
</table>

Type of Failure:
Total failure at the interface.


Technical Bulletins

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