NOTICE OF ACCEPTANCE (NOA)

ITW RAMSET/REDHEAD
1300 n. Michael Drive.
Wood Dale, IL 60191

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone.

DESCRIPTION: Epcon Acrylic7 Adhesive Anchoring System
APPROVAL DOCUMENT: Drawing No.01-284, Sheets 1 of 1, titled “Epcon Acrylic 7 Adhesive Anchoring System” dated 04/25/01 with no revisions, prepared by Knezevich & Associates, Inc. signed and sealed by John J. Knezevich, PE bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance (NOA) number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None
LABELING: Each Box shall bear a permanent label with the manufacturer’s name or logo, city, state and the following statement: “Miami-Dade County Product Control Approved or MDCPCA”, unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA 01-0501.01 and consists of this page, evidence page as well as approval document mentioned above.

The submitted documentation was reviewed by Candido Font, P.E.

NOA No 06-0425.02
Expiry Date: July 05, 2011
Approval Date: June 22, 2006
NOTICE OF ACCEPTANCE: EVIDENCE PAGE

A DRAWINGS:
1. Drawings prepared by Knezevich & Associates, Inc., titled “Epcon Acrylic 7 Adhesive Anchoring System”, Drawing No: 01-284, dated 04/25/2001 with no revisions, sheet 1 of 1, signed and sealed by V. J. Knezevich, PE.

B TEST:
1. Test report on Tension and Shear Resistance for a Chemical Anchor in Concrete Slab, Laboratory No. 30150 for “Epcon Acrylic 7” per ASTM E 488 prepared by Applied Research Laboratories on 12/22/00, signed and sealed by C.A. Hamon, PE

C CALCULATIONS:
N/A

D QUALITY ASSURANCE:

D MATERIAL CERTIFICATIONS:
1. ICBO Evaluation Report No. ER5560 of Epcon Acrylic 7 and Maxima 7 Adhesive reissued on 09/01/2000, without any signature.

E STATEMENTS:
2. No change letter issued by ITW Red Head on 03/27/06 and signed by C. L. Johnson.

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FIGURE 1
INSTALLATION STEPS

1. Drill proper sized hole clean out hole with forced air complete hole preparation with use of a brush and repeat cleaning with forced air (leave no dust or slurry).

2. When starting new cartridge on nozzle, dispense and discard enough adhesive until uniform dark gray color is achieved. Insert the nozzle into the bottom of the hole and fill to 1/2 the hole depth.

3. Insert the selected rod or rebar slowly by hand into the bottom of the hole with a slow twisting motion. This insures the adhesive fills voids and devices uniformly.

4. See Table 3 cure time chart for setup time after the recommended cure time is met install and tighten fixture into place.

GENERAL NOTES:
1. This adhesive anchoring system is designed in accordance with the South Florida Building Code (F.B.C.), 1994 Edition for Miami-Dade County, Florida.
3. EPON A37 is a stud-type adhesive designed for anchoring and doweling in normal-weight concrete with threaded rod and reinforcing bar.
4. This adhesive anchoring system shall be installed per Figure 1.
5. The stud-type threaded rods may range from 1/2" through 1-1/4" and shall comply with ASTM A193, grade B7 (fu = 125,000 psi, min.)
6. Deformed reinforcement bars may range from No. 4 to No. 8 shall be minimum grade 60 and shall comply with ASTM A 615.
7. Normal-weight concrete shall have a minimum 3,000 psi compressive strength at 28 days. Concrete materials shall be American Concrete Institute Manual of Concrete Practice, ACI 318.
8. Allowable shear and tension loads are based on the ultimate load divided by a factor of safety.
9. Table 1 and Table 2 allowable load values are only valid if base material temperature and shall be calculated as shown in Figure 2.
10. Minimum anchor spacing specified in Tables 1 & 2 equal 12 times the embedment depth.
11. Minimum edge distance specified in Tables 1 & 2 equal 125 times the embedment depth.

TABLE 1
REBAR ANCHORS INSTALLED IN MIN. 3000 P.S.I. CONCRETE @ 75°F BASE MATERIAL TEMP.

<table>
<thead>
<tr>
<th>REBAR SIZE</th>
<th>HOLE DIAMETER (INCHES)</th>
<th>MINIMUM EMBR DPTH (INCHES)</th>
<th>MINIMUM ANCHOR SPACING (INCHES)</th>
<th>MINIMUM EDGE DIST (INCHES)</th>
<th>ALLOWABLE LOAD + (IPOUNDS)</th>
<th>TENSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>5/8</td>
<td>4-1/2</td>
<td>9</td>
<td>5-5/8</td>
<td>3,800</td>
<td>8-1/2</td>
</tr>
<tr>
<td>3/4</td>
<td>3/8</td>
<td>5-5/8</td>
<td>11-1/4</td>
<td>7</td>
<td>4,455</td>
<td>9-1/2</td>
</tr>
<tr>
<td>7/8</td>
<td>7/8</td>
<td>6-3/4</td>
<td>13-1/2</td>
<td>8-13/32</td>
<td>6,637</td>
<td>8-3/4</td>
</tr>
<tr>
<td>11/8</td>
<td>1</td>
<td>7-3/8</td>
<td>15-3/4</td>
<td>9-13/16</td>
<td>8,325</td>
<td>9-1/2</td>
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<tr>
<td>13/8</td>
<td>1-1/8</td>
<td>9</td>
<td>11-1/4</td>
<td>13-5/16</td>
<td>11,514</td>
<td>9-1/2</td>
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</table>

* Allowable load values shall be reduced for installations where base material temperature is higher than 130°F to obtain reduced value due to temperature. Multiply allowable load from Table 1 by load factor from Figure 2.

TABLE 2
THREADED ROD ANCHORS INSTALLED IN MIN. 3000 P.S.I. CONCRETE @ 75°F BASE MATERIAL TEMPERATURE

<table>
<thead>
<tr>
<th>ROD DIAMETER (INCHES)</th>
<th>HOLE DIAMETER (INCHES)</th>
<th>MINIMUM EMBR DPTH (INCHES)</th>
<th>MINIMUM SPACING (INCHES)</th>
<th>ALLOWABLE LOAD + (POUNDS)</th>
<th>TENSION</th>
<th>SHEAR</th>
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<tr>
<td>3/8</td>
<td>9/16</td>
<td>6-1/2</td>
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<td>5-5/8</td>
<td>3,564</td>
<td>2,455</td>
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<td>3/4</td>
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<td>11-1/4</td>
<td>7</td>
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<td>3,242</td>
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<td>6-3/4</td>
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<tr>
<td>1</td>
<td>1-1/8</td>
<td>9</td>
<td>11-1/4</td>
<td>13-5/16</td>
<td>11,770</td>
<td>11,202</td>
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</table>

* Allowable load values shall be reduced for installations where base material temperature is higher than 130°F to obtain reduced value due to temperature. Multiply allowable load from Table 2 by load factor from Figure 2.

CURE TIME CHART

TABLE 3
CONCRETE TEMPERATURE (°F) | MINIMUM SET TIME | MINIMUM TIME |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<tr>
<td>60</td>
<td>6 HOURS</td>
<td>24 HOURS</td>
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<tr>
<td>70</td>
<td>35 MIN</td>
<td>6 HOURS</td>
</tr>
<tr>
<td>80</td>
<td>15 MIN</td>
<td>75 MIN</td>
</tr>
<tr>
<td>90</td>
<td>7 MIN</td>
<td>35 MIN</td>
</tr>
<tr>
<td>100</td>
<td>5 MIN</td>
<td>30 MIN</td>
</tr>
<tr>
<td>120</td>
<td>6 MIN</td>
<td>20 MIN</td>
</tr>
</tbody>
</table>

1. Anchors are to be undisturbed during the initial set time.
2. Cure time required prior to application of allowable design tensile and shear loads.

FIGURE 2
LOADING FACTOR

BASE MATERIAL TEMPERATURE (DEGREES F)

PRODUCT DEVELOPED WITH INSURANCE CO.

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