MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

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 F. Font, P.E.**

06/22/06

PRODUCT CONTROL ACCEPTED

NOA No 06-0425.02
Expiration Date: July 05, 2011
Approval Date: June 22, 2006

ITW RAMSET/ RED HEAD

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:

1. Building Code Compliance Office.

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:

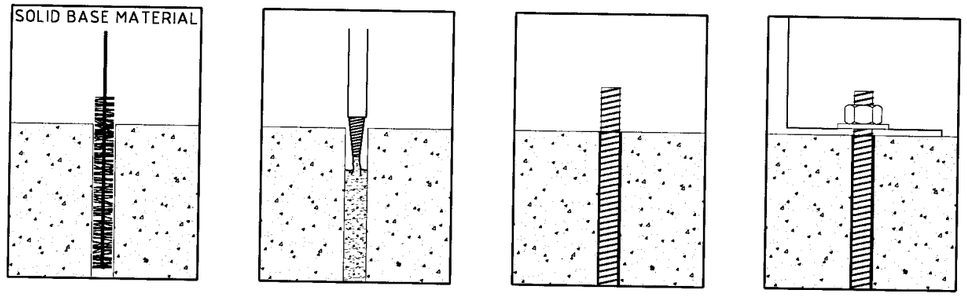
1. Code compliance letter issued by Knezevich & Associates, Inc. on 04/25/2001, signed by V. J. Knezevich, PE.

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

06/22/06

Candido F. Font, P.E.
Senior Product Control Examiner
NOA No 06-0425.02
Expiration Date: July 05, 2011
Approval Date: June 22, 2006

FIGURE 1
INSTALLATION STEPS



1. DRILL PROPER SIZED HOLE. CLEAN OUT HOLE FROM BOTTOM 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 OR 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 CREVICES 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 (S.F.B.C.), 1994 EDITION FOR MIAMI-DADE COUNTY, FLORIDA.
2. REFERENCE APPLIED RESEARCH LABORATORIES (A.R.L.) TEST REPORT No. 30150.
3. EPCON A7 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" IN DIAMETER, AND SHALL COMPLY WITH ASTM A193, GRADE B7 [Fu = 125,000 P.S.I., MINIMUM].
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 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS. CONCRETE MATERIALS SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE MANUAL OF CONCRETE PRACTICE, ACI 301.
8. ALLOWABLE SHEAR AND TENSION LOADS ARE BASED ON THE ULTIMATE LOAD DIVIDED BY 4. REFER TO TABLES 1 & 2 FOR ALLOWABLE SHEAR & TENSION LOADS.
9. TABLE 1 AND TABLE 2 ALLOWABLE LOAD VALUES ARE ONLY VALID UP TO 130° F BASE MATERIAL TEMPERATURE AND SHALL BE REDUCED PER FIGURE 2 WHEN INSTALLED AT LOCATIONS WHERE THE BASE MATERIAL TEMPERATURE MAY EXCEED 130° F.
10. MINIMUM ANCHOR SPACING SPECIFIED IN TABLES 1 & 2 EQUAL 2 TIMES THE EMBED. DEPTH.
11. MINIMUM EDGE DISTANCES SPECIFIED IN TABLES 1 & 2 EQUAL 1.25 TIMES THE EMBEDMENT DEPTH.

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

TABLE 1

REBAR SIZE	HOLE DIAMETER (INCHES)	MINIMUM EMBEDMENT DEPTH, (INCHES)	MINIMUM ANCHOR SPACING, (INCHES)	MINIMUM EDGE DIST. (INCHES)	ALLOWABLE LOAD * (POUNDS)
					TENSION
#4	5/8	4-1/2	9	5-5/8	3,800
#5	3/4	5-5/8	11-1/4	7	4,415
#6	7/8	6-3/4	13-1/2	8-13/32	6,637
#7	1	7-7/8	15-3/4	9-13/16	8,326
#8	1-1/8	9	18	11-1/4	12,514

* 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.

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

TABLE 2

ROD DIAMETER (INCHES)	HOLE DIAMETER (INCHES)	MINIMUM EMBEDMENT DEPTH, (INCHES)	MINIMUM ANCHOR SPACING, (INCHES)	MINIMUM EDGE DIST. (INCHES)	ALLOWABLE LOAD * (POUNDS)	
					TENSION	SHEAR
1/2	9/16	4-1/2	9	5-5/8	3,564	2,455
5/8	3/4	5-5/8	11-1/4	7	3,781	4,342
3/4	7/8	6-3/4	13-1/2	8-13/32	7,831	6,021
1	1-1/8	9	18	11-1/4	11,770	11,202

* 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.

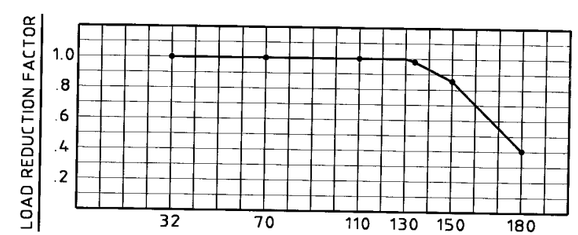
CURE TIME CHART

TABLE 3

CONCRETE TEMPERATURE (°F)	MINIMUM[1] INITIAL SET TIME	MINIMUM[2] CURE TIME
0	4 HOURS	24 HOURS
20	35 MIN.	6 HOURS
40	15 MIN.	75 MIN.
60	7 MIN.	35 MIN.
80	5.5 MIN.	30 MIN.
100	5 MIN.	25 MIN.
120	4 MIN.	20 MIN.

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



PRODUCT REVIEWED
Complying with the Florida Building Code
Application No. 06-042502
Date 07/05/11
By
Miami-Dade Product Control Division

JUL 05 2001
01-0501.01

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EPCON ACRYLIC 7
ADHESIVE ANCHORING SYSTEM

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V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No:
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APR 25 2001

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scale AS NOTED	drawn by AV
design by AS	checked by VJK
drawing no. 01-284	
sheet 1 of 1	

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