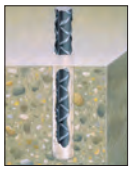
RED HEAD®
ADHESIVE ANCHORING SPECIALISTS

Adhesive Anchoring Selection Guide


Doweling into Concrete with Rebar

Fastening to Concrete with Threaded Rod

Solid Concrete Applications

PRODUCT SYSTEMS	KEY FEATURES	PROPERTIES	STRENGTH DESIGN PERFORMANCE[1]

A7+ *The Most Versatile Quick Cure*

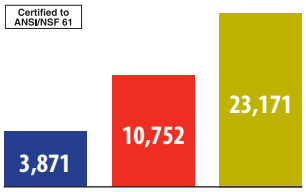
Works in more applications than the competition

5 fluid oz. (150 ml) kit, 9.5 fluid oz. (280 ml) and 28 fluid oz. (825 ml) cartridges

- The only quick-cure ICC-ES listed for use in all wet conditions
- Qualified for use in concrete, block, brick, and clay tile. Solid or hollow base materials
- Cures in only 45 minutes (at substrate temperature of 70°F/21°C)
- ICC-ES listing for cracked concrete and seismic applications (ICC-ES ESR 3903)
- ICC-ES listing for masonry applications (ICC-ES ESR 3951)
- No drip formula that allows direct-injection overhead installation
- 18 month shelf life
- NSF/ANSI 61

BASE MATERIAL (F°/C°)	GEL/WORKING TIME	FULL CURE TIME
110°/ 43°	1.5 minutes	45 minutes
90°/ 32°	3 minutes	45 minutes
70°/ 21°	5 minutes	45 minutes
50°/ 10°	15 minutes	90 minutes
30°/ -1°	35 minutes	4 hours
14°/ -10°	35 minutes	24 hours

NSF® Certified to ANSI/NSF 61



C6+ *For the Most Demanding Jobs*

Red Head's highest strength adhesive

MADE IN USA WITH U.S. AND GLOBAL MATERIALS

15.2 fluid oz. (450 ml) cartridges and 30.4 fluid oz. (900 ml) cartridges

- At least 25% stronger than the old C6+ formulation for threaded rod in cracked concrete and with seismic conditions
- Fastest cure time in its class, curing in just 2.75 hours at 90°F and in only 2 hours at 110°F!
- ICC-ES listing for concrete (uncracked and cracked concrete, and seismic conditions) and masonry
- ICC-ES listing for use in core-drill holes, even in cracked concrete
- Can be used in oversized holes
- Can be used in core drilled holes
- Can be used in all wet conditions (saturated, water-filled, and submerged)
- European fire approval
- 24 month shelf life
- NSF/ANSI 61

BASE MATERIAL (F°/C°)	GEL/WORKING TIME	FULL CURE TIME
110°/ 43°	10 minutes	2 hours
90°/ 32°	14 minutes	2.75 hours
70°/ 21°	16 minutes	6.5 hours
50°/ 13°	30 minutes	24 hours
40°/ 7°	46 minutes	48 hours

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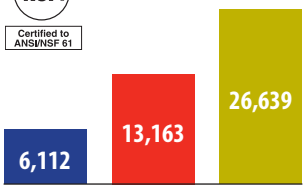


G5+ *Everyday Epoxy*

Economical general-purpose adhesive

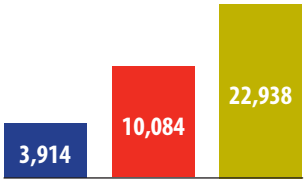
MADE IN USA WITH U.S. AND GLOBAL MATERIALS

15.2 fluid oz. (450 ml) cartridges and 30.4 fluid oz. (900 ml) cartridges

- At least 50% stronger than the old G5 formulation for threaded rod in cracked concrete and with seismic conditions
- Cures 3x faster than the old G5 formula
- Now works down to 40°F
- ICC-ES listing for concrete (uncracked and cracked concrete, and seismic conditions)
- Formulated for warm weather with at least 10 minutes of working time
- Can be used in oversized holes
- Can be used in core drilled holes
- Can be used in all wet conditions (saturated, water-filled, and submerged)
- 24 month shelf life
- NSF/ANSI 61

NSF® Certified to ANSI/NSF 61

BASE MATERIAL (F°/C°)	GEL/WORKING TIME	FULL CURE TIME
110°/ 43°	10 minutes	4 hours
90°/ 32°	14 minutes	6 hours
70°/ 21°	16 minutes	8 hours
50°/ 13°	30 minutes	30 hours
40°/ 7°	46 minutes	48 hours

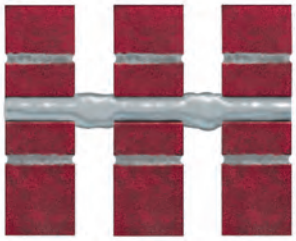


[1] Diameter x Embedment in 4000 psi concrete. All loads given in pounds. Calculated using the ICC-ES threaded rod data in uncracked, dry concrete with periodic inspection. Temperature range A.

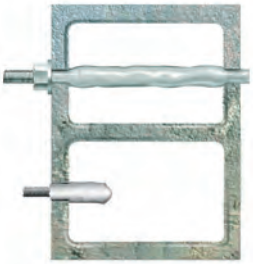
*Red head A7+ replaced Epcon A7 and S7. Red Head C6+ replaced Epcon C6+, and Red Head G5+ replaced Epcon G5. For more information on the retired adhesives (Epcon A7, S7, C6+ and G5), please visit www.itwredhead.com

Hollow Base Material Applications

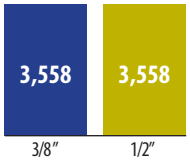
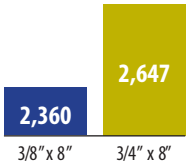
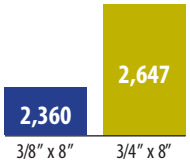
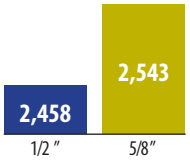
Use the following accessories with the A7+ adhesive anchoring system for all of your hollow base material applications.



Brick Pinning



Fastening to hollow concrete block

SYSTEM ACCESSORIES	KEY FEATURES	ULTIMATE TENSILE [1, 2] PERFORMANCE (LBS.)
Umbrella Anchor Umbrella Anchor **Makes it possible to use adhesive for fastening to the face of hollow block or tile** (see page 60-61)	■ Highest hold in hollow block ■ 1/4", 3/8", or 1/2" rods ■ Fasten to front face of blocks ■ Creates large bearing surface inside block to achieve high loads	A7+ 
Nylon Screen Tubes **Makes it possible to use adhesive for fastening to hollow block or brick walls** (see page 64)	■ 3/8" to 3/4" diameter sizes ■ 30%-50% lower cost than stainless screens ■ Special design makes screens easier to insert through block or brick ■ Does not get bent or crushed ■ Corrosion resistant	A7+ 
Stainless Steel Screen Tubes **Makes it possible to use adhesive for fastening to hollow block or brick walls** (see page 64)	■ 1/4" & 3/4" diameter sizes ■ Corrosion resistant ■ Available in 1/4" thicknesses	A7+ 
Short Screen Tubes **Makes it possible to use adhesive for fastening to the face of hollow block or tile** (see page 61)	■ 1/4", 3/8", 1/2", 5/8" diameter sizes ■ Fasten to front face of block ■ Anchor remains perpendicular in wall	A7+ 

[1] Testing performed in hollow concrete block. [2] Diameter x Embedment.

RED HEAD®
Call our toll free number **800-848-5611** or visit our web site for the most current product and technical information at **www.itwredhead.com**