



Doweling into Concrete



STRENGTH DESIGN

PERFORMANCE¹

Fastening to Concrete with Threaded Rod

Solid Concrete Applications

A7+ The Most Versatile Ouick Cure

PRODUCT SYSTEMS

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

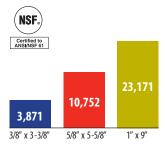


KEY FEATURES

- The only quick-cure ICC-ES listed for use in all wet conditions
- 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		
	GEL/WORKING	FULL
(F°/C°)	TIME	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

PROPERTIES



C6+ For the Most Demanding Jobs

Red Head's highest strength adhesive

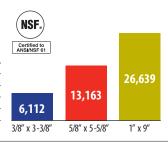


15.2 fluid oz. (450 ml) cartridges and 30.4 fluid oz. (900 ml) cartridges



- 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



G5+ Everyday Epoxy

Economical general-purpose adhesive



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



RASE MATERIAL GEL/WORKING FULL CURE TIME 110°/43 10 minute 4 hours 90°/32° 14 minutes 6 hours 70°/21 16 minutes 8 hours 50°/ 13° 30 minutes 30 hours 40°/7°

_ _ _ _	3,914	10,084		22,938
	3/8" x 3-3/8"	5/8" x 5-5/8	"	1" x 9"

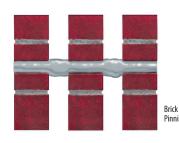
Diameter x Embedment in 4000 psi concrete. All loads given in pounds. Calculated using the ICC-ES threaded rod data in uncracked, dry concrete with periodic inspection. Temperature range A.

^{*}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.





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	 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+ 3,558 3,558 1/2"	
Nylon Screen Tubes	3/8" to 3/4" diameter sizes	<u>A7+</u>	
	 30%-50% lower cost than stainless screens Special design makes screens easier to insert through block or brick Does not get bent or crushed 	2,647	
Makes it possible to use adhesive for fastening to hollow block or brick walls (see page 63)	Corrosion resistant	3/8" x 8" 3/4" x 8"	
Stainless Steel Screen Tubes Makes it possible to use adhesive for fastening to hollow block or brick walls (see page 63)	1/4" & 3/4" diameter sizesCorrosion resistant	2,647 2,360 3/8" x 8" 3/4" x 8"	
Stainless Steel	■ 1/4", 3/8", 1/2", 5/8" diameter sizes ■ Fasten to front face of block	<u>A7+</u>	
Short Screen Tubes	 Fasten to front face of block Anchor remains perpendicular in wall 	2,543 2,458 1/2" 5/8"	
Makes it possible to use adhesive for fastening to the face of hollow block or tile (see page 61)			

¹Testing performed in hollow concrete block.

² Diameter x Embedment.