## **RED HEAD** ADHESIVE ANCHORS

# A CERTAINE CERTAINE WITH RED HEAD ADHESIVE ANCHOR SYSTEMS

100

VERSATILE ADHESIVE ANCHORS FOR CONCRETE AND MASONRY APPLICATIONS

# SIMPLE CERTAINTY

## IN THE SELECTION AND INSTALLATION OF ADHESIVE ANCHORS

## ANCHOR SPECIFICATION, SIMPLIFIED.

Red Head reduces complexity by covering all your anchoring needs with fewer products. Backed by ICC-ES evaluation reports, this versatile offering simplifies specification work and provides added assurance that chemical anchors will perform to design expectations.

## ANCHOR INSTALLATION, CERTAINTY.

Selecting the wrong adhesive for the job is a key concern and common cause of anchor failure on the job site. The simplicity and versatility of Red Head's adhesive line minimizes the risk of picking the wrong adhesive for the anchoring application and job site conditions at hand.

## **RED HEAD ADHESIVE ANCHORING SYSTEMS ARE DESIGNED FOR:**

## RELIABLE PERFORMANCE

Red Head adhesives were formulated to go above-and-beyond industry standards. The performance of all of our adhesives is backed by ICC-ES evaluation reports.

## BROAD APPLICATION COVERAGE

Whether its light-duty or heavy-duty, concrete or masonry, deep embedment holes or core-drilled holes, wet conditions or extreme temperatures, Red Head has an adhesive anchor solution.

## JOBSITE PRODUCTIVITY

Red Head knows that time = money, and our adhesives are here to help save some of both. No need to reschedule labor when the rain arrives, keep installing Red Head adhesives! The versatility of the Red Head product line means fewer products to train a crew on and fewer products to purchase and stock.

REED HEAD





## 

THE MOST VERSATILE QUICK-CURE

**CO** FOR THE MOST DEMANDING JOBS

## SIMPLIFIED CHOICES MINIMIZE THE RISK OF INSTALLATION ERROR

Red Head products are engineered to provide the most versatility when it comes to providing superior bond strength across many material types and installation conditions, while meeting a wide array of code requirements.

≪ <b>₽ RED HEAD</b>	HILT	DEWALT	SIMPSON Strong Tie
<b>A7</b> +	HY 200-A HY 200-R HY 100 HY 70 HIT-ICE HY-10 PLUS	AC200+™ AC100+ GOLD AC50™	AT-XP* AT
<b>C6</b> +	RE 500 V3 RE 100 HTE 50	Pure110+° Pure50+™ PE1000+' PURE GP	SET-XP° SET° ET-HP° EDOT







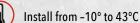
## THE MOST VERSATILE QUICK-CURE

#### MORE TYPES OF CONCRETE AND MASONRY

Saturated Concrete



Water-Filled and Submerged Holes



Seismic Zones A-F

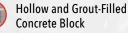
### WIDER RANGE

#### **OF ENVIRONMENTAL CONDITIONS**

Normal, Lightweight, and High-Strength Concrete



Cracked and Uncracked Concrete



Brick, Stone, and Structural Clay Tile

### BROADER VARIETY OF ANCHORING APPLICATIONS

Rebar Dowelling Structural Steel Framing

Railings and Architectural Metal

Brick Pinning

Concrete Block Reinforcement

Seismic Retrofitting

Traffic Barriers and Guardrails

Machinery Anchoring

## **HOW VERSATILITY BENEFITS YOU**

### INSTALL WITH CERTAINTY

Less risk of anchor failure from installers choosing the wrong adhesive for the substrate or application.

Less risk of anchor failure and rework from chemical anchors being installed in improper environmental conditions.

#### **BOOST** PRODUCTIVITY

Eliminate delays and schedule disruptions caused by adverse weather conditions.

Speed up installation work since no time is required for drying holes in wet conditions.

### **SIMPLIFY** THE JOBSITE

Fewer products to manage in inventory and on the job site.

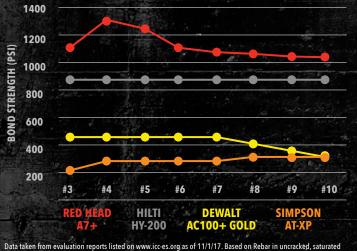
Using one versatile product minimizes time-consuming training and oversight.

## **ONE QUICK-CURE PRODUCT NOW DOES** THE WORK OF MULTIPLE PRODUCTS

Red Head A7+ replaces the need for separate adhesive anchors for light, medium, and heavy-duty anchoring applications.

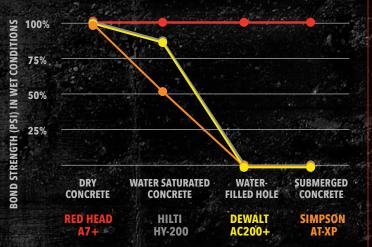
- RED HEAD	HILTH	DEWALT	SIMPSON Strong Tie	
	HY200A (Accelerated)			
	HY200R (Regular)	AC200+	AT-XP	
<b>17</b> +	HY100	AC100+		
	HY70 (Masonry)	Gold AC50		
	HIT ICE (Cold Weather)		AT	
	HY-10 Plus	Silver		

## **A7+ DELIVERS SUPERIOR BOND STRENGTH IN SATURATED CONCRETE...**



concrete with periodic inspection.

## ... AND MAINTAINS ITS STRENGTH EVEN IN WATER-FILLED AND SUBMERGED HOLES



Data taken from evaluation reports listed on www.icc-es.org as of 11/1/17. Based on #6 rebar for uncracked concrete with periodic inspection. The bond strength for each product in wet conditions is represented above as a percentage of the performance of the same product in dry conditions.

## **RIGOROUSLY TESTED.** PPROVED

### **COMMON TECHNICAL SPECIFICATIONS**

VARIABLE	SPEC
PRODUCT DESCRIPTION	High-strength, quick-cure structural concrete and masonry adhesive anchoring system
ADHESIVE TYPE	2-part injectable hybrid epoxy (10:1 ratio)
CARTRIDGE TYPES & SIZES	Durable and resealable cartridges available in 2 sizes - 9.5oz coaxial cartridge (standard caulking tube) - 28oz. dual cartridge
APPROVALS	- ICC-ES ESR 3903 (Concrete Report) - ICC-ES ESR 3951 (Masonry Report)
Contraction of the	- 2015, 2012, 2009, 2006 International Building Code (IBC) Compliant
	- Florida Building Code (FBC)
	- City of Los Angeles (COLA)
	- NSF/ANSI 61 Approval for use in Drinking Water System Components
	- ASTM C881, Types I, II, IV, and V, Grade 3, Classes A, B & C (meets Type III except elongation)
ANCHOR SIZES AND TYPES	- Threaded Rod: ¼" - 1-1/2"
	- Rebar: #3·#11
WATER RESISTANCE	100% hydrophobic, suitable for use in saturated concrete and water filled or submerged holes
APPLICATION TEMPERATURES	14° through 110°F (-10° through 43°C)
IN-SERVICE TEMPERATURES	-41° through 176°F (-41° through 80°C)
STORAGE LIFE & TEMPERATURE	18 months from date of manufacture when stored in 32° through 95°F (0° through 35°C)
COUNTRY OF ORIGIN	Made in France (28oz packaged in the US)

## **GEL/CURE TIME TABLE FOR A7+**

BASE MATERIAL		. CURE TIME	GELTIME	BASE MATERIAL
	110	45 min	1.5 min	43
	90	45 min	2.5 min	. 32
in de	70	45 min	5 min	21
5.00	50	90 min	16 min	10
	32	4 hrs	35 min	0.
1	14	24 hrs	35 min	-10
	° 🗋	-82 i		~ ( ° <b>~</b> )









## FOR THE MOST DEMANDING JOBS

#### ENGINEERED FOR HARSH ENVIRONMENTS



The Strongest Adhesive in Red Head History (At least 25% stronger than the previous Epcon C6+)



At Least 10 Minutes of Gel Time, Even in 43°C

Cures in just 2 Hours at 43° C, in 2.75 Hours at 32° C

## TESTED

**TO THE EXTREME** 



#### FOR THE MOST DEMANDING APPLICATIONS

Seismic	Structural
Retrofitting	Anchoring
Core-Drilled	Oversized
Holes	Holes
Structural Rebar	Overhead,
Dowelling	Sustained Loads

## **HOW PERFORMANCE BENEFITS YOU**

### **PERFECT SOLUTION** FOR IMPERFECT CONDITIONS

Whether a user needs to core out a misplaced anchor, accidentally drilled an oversized hole, or picked a rainy day to start your job, Red Head C6+ has the has the performance needed to help conquer job site obstacles.

### SAME-SHIFT PRODUCTIVITY

With a 6.5 hour cure at 21° C, and just a 2 hr cure at 43° C, there is no need to wait until the next day to apply the load to the anchors.

There's no need for roughening when using C6+ in core-drilled holes, saving time and effort.

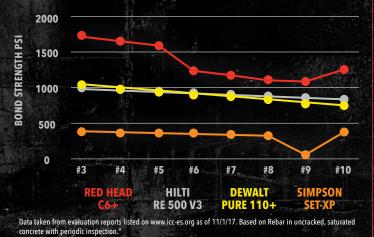
### **SUPPORTING** THE NORTH AMERICAN ECONOMY

Formulated, blended, and packaged in the US, by an American company.

Domestic manufacturing and local distribution ensures quick availability.

## MAXIMUM BOND STRENGTH, EVEN IN WET CONDITIONS

The high strength of Red Head C6+ helps insure anchor reliability.



## THE MOST APPROVALS OF ANY ADHESIVE IN RED HEAD'S HISTORY

#### COMMON TECHNICAL SPECIFICATIONS

VISIT WWW.ITWREDHEAD.CA FOR MORE INFORMATION

VARIABLE	SPEC
PRODUCT DESCRIPTION	High-strength structural concrete and masonry adhesive anchoring system
ADHESIVE TYPE	2-part injectable epoxy (2:1 ratio)
CARTRIDGE TYPES & SIZES	Durable and resealable cartridges available in 1 size - 30.4oz. dual cartridge
APPROVALS	<ul> <li>ICC-ES ESR 4046 (Concrete Report)</li> <li>ICC-ES ESR 4109 (Masonry Report)</li> <li>2015, 2012, 2009, 2006 International Building Code (IBC) Compliant</li> <li>Florida Building Code (FBC)</li> <li>City of Los Angeles (COLA)</li> <li>NSF/ANSI 61 Approval for use in Drinking Water System Components</li> <li>ASTM C881, Types I, II, IV, and V, Grade 3, Classes B &amp; C</li> </ul>
ANCHOR SIZES AND TYPES	- Threaded Rod: 3/8" – 1-1/2" - Rebar: #3-#11
WATER RESISTANCE	Suitable for use in saturated concrete and water- filled or submerged holes
APPLICATION TEMPERATURES	40° through 110°F (4° through 43°C)
IN-SERVICE TEMPERATURES	-41° through 176°F (-41° through 80°C)
STORAGE LIFE & TEMPERATURE	24 months from date of manufacture when stored in 50° through 95°F (10° through 35°C)
COUNTRY OF ORIGIN	Made in USA with U.S. and global materials

## GEL/CURE TIME TABLE FOR C6+

BASE	MATERIAL	CURE TIME	<b>GEL TIME</b>	BASE MATERIAL
(	110	2 hrs	10 min	43
	90	2.75 hrs	14 min	32
27.00	70	6.5 hrs	16 min	21
14.2	50	24 hrs	30 min	10
	40	48 hrs	46 min	4





Data taken from evaluation reports listed on www.icc.es.org as of 11/1/17. Based on threaded rod in a core drilled hole in cracked, saturated concrete, with periodic inspection.





## **ORDERING INFORMATION**

FOR RED HEAD ADHESIVES AND ACCESSORIES



#### **RED HEAD A7+ ADHESIVE ANCHORS**

PART NO.	DESCRIPTION	BOX QTY.
A7P-10	Red Head A7+ 9.5oz Cartridge w/ Nozzle	6
A7P-28	Red Head A7 + 28oz Cartridge w/ Nozzle	4





#### **RED HEAD C6+ ADHESIVE ANCHORS**

PART NO.	DESCRIPTION	BOX QTY.
C6P-30	Red Head C6+ 30.4oz Cartridge w/ Nozzle	4



#### **RED HEAD A7+ DISPENSING TOOLS**

PART NO.	DESCRIPTION	
A100	10oz. Manual Tool (A7P-10)	
A102-V3	28oz HD Manual Tool (A7P-28)	
A200	28oz Pneumatic Tool (A7P-28)	
A300	28oz/30oz Battery Tool (A7P-28, C6P-30)	





**MASONRY ACCESSORIES** 

#### RED HEAD C6+ DISPENSING TOOLS

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION	BOXQTY.
D102	30.4oz HD Manual Tool (C6P-30)	D202	30.4oz Pneumatic Tool (C6P-30)	9200	Umbrella Anchor for Hollow Block	20
A300	28oz/30oz Battery Tool (A7P-28, C6P-30)			HBP 38-8	3/8" Diameter by 8" length Nylon screen	25



**DISPENSING ACCESSORIES** 

PART NO.	DESCRIPTION	BOX QTY.
A245	Short Nozzle	24
\$55	Standard Nozzle	24
E55	Long Nozzle	24
\$75	High-Flow Nozzle	24
S75EXT	Extension for High-Flow Nozzle	24
E25-6	6' Extension Tube	5
E916-6	Heavy Duty 6' Extension Tube (Fits Piston Plugs)	5
PL-5834	Piston Plug for 5/8" and 3/4" diameter anchors	10
PL-7810	Piston Plug for 7/8" and 1" diameter anchors	10
PL-1250	Piston Plug for 1-1/4" diameter anchors	10



#### HOLE CLEANING ACCESSORIES

PART NO.	DESCRIPTION	BOX QTY.
065990	Manual Blow Pump	1
WB-038	Wire Brush for 3/8" Anchors	10
WB-012**	Wire Brush for 1/2" Anchors	10
WB-058	Wire Brush for 5/8" Anchors	10
WB-034	Wire Brush for 3/4" Anchors	10
WB-078	Wire Brush for 7/8" Anchors	10
WB-100**	Wire Brush for 1" Anchors	10
WB-125	Wire Brush for 1-1/4" Anchors	10
B012**	Nylon Brush 1/2" Diameter (soft enough for Masonry)	1
ESDS-38	Wire Brush 12" Usable Extension with SDS+ Adaptor	1
EHAN-38	Wire Brush 12" Usable Extension w ith T-Handle	1

\*\* Items only available as special order

## **OSHA**<sup>®</sup> **SILICA DUST REGULATION**

### ITW RED HEAD® RECOMMENDS USING MILWAUKEE® SILICA DUST EXTRACTION SYSTEMS WHEN INSTALLING RED HEAD ANCHORS

While Red Head anchors can be safely used with most hammer drills and dust extraction systems, we recommend the Milwaukee® tools because of their superior performance and value. The options below help customers to stay in compliance with the new OSHA® regulation on respirable crystalline silica dust (29 CFR 1926.1153). Each customer should consult with its company's safety team or OSHA authority to determine the best solution. Visit www.itwredhead.com or www. milwaukeetool.com/silica-dust-extractionsolutions for more information.



### **DUST EXTRACTION SOLUTIONS AVAILABLE FROM MILWAUKEE® DISTRIBUTORS:**

DRILL TYPE	ATTACHMENT	EXTRACTION SYSTEM	OSHA COMPLI 29 CFR 1926.1153 TABLE 1	ANCE METHOD OBJECTIVE DATA
ALL SDS PLUS ROTARY HAMMERS	M12 <sup>™</sup> HAMMERVAC <sup>™</sup> UNIVERSAL DUST EXTRACTOR (2306-22)	INTEGRATED		
	SDS PLUS VACUUM BITS	8 GALLON DUST EXTRACTOR (8960-20)	•	
	VACUUM ASSISTED DUST EXTRACTOR (5261-DE)			
ALL SDS MAX ROTARY HAMMERS	SDS MAX DUST EXTRACTION ATTACHMENT (5317-DE)		•	
	SDS MAX VACUUM BITS		•	

### **VACUUM DRILL BITS AVAILABLE FROM MILWAUKEE® DISTRIBUTORS:**

ANCHOR DIAMETER	MILWAUKEE ITEM#	MILWAUKEE PRODUCT NAME	DIAMETER (IN)	USABLE LENGTH (IN)	OVERALL LENGTH (IN)
3/8" or #3	48-20-2102	SDS+ VACUUM DRILL BIT 7/16X7-7/8X13	7/16	7-7/8	13
	48-20-2106	SDS+ VACUUM DRILL BIT 1/2X7-7/8X13	1/2	7-7/8	13
1/2"	48-20-2110	SDS+ VACUUM DRILL BIT 9/16X9-1/2X14	9/16	9-1/2	14
#4	48-20-2114	SDS+ VACUUM DRILL BIT 5/8X9-1/2X14	5/8	9-1/2	14,
5/8" or #5	48-20-2118	SDS+ VACUUM DRILL BIT 3/4X9-1/2X14	3/4	9-1/2	14
	48-20-2100	SDS+ VACUUM DRILL BIT REPLACEMENT ADAPTER		English and an and a start of the	
#4	48-20-2152	SDSMAX VACUUM DRILL BIT 5/8X15.75X23	5/8	15-3/4	23
5/8" or #5	48-20-2156	SDSMAX VACUUM DRILL BIT 3/4X15.75X23	3/4	15-3/4	23
3/4" or #6	48-20-2160	SDSMAX VACUUM DRILL BIT 7/8X15.75X23	7/8	15-3/4	23
7/8" or #7	48-20-2164	SDSMAX VACUUM DRILL BIT 1X17.5X25	1	17-1/2	25
1" or #8	48-20-2168	SDSMAX VACUUM DRILL BIT 1-1/8X27X35	1-1/8	27	35
1-1/4" or #10	48-20-2172	SDSMAX VACUUM DRILL BIT 1-3/8X27X35	1-3/8	27	35
	48-20-2150	SDSMAX VACUUM DRILL BIT REPLACEMENT ADAPTER	the states	and the second second	
				NAME AND ADDRESS OF TAXABLE PARTY OF TAXABLE PARTY.	



## **ONLINE RESOURCES FOR DESIGNERS**

Red Head provides you with free software for designing concrete connections in compliance with ACI 318 Appendix D/ Chapter 17.

#### VISIT ITWREDHEAD.COM/TRUSPEC TO DOWNLOAD OR USE TRUSPEC 2.0 ONLINE

- Design concrete anchoring connections in minutes
- Calculate critical values for total strength design of anchor connections
- Predict mode of failure for anchor connections
- Model attachment with single or multiple anchor points, minimum edge distance, and minimum spacing distance



## MOBILE RESOURCES FOR CONTRACTORS

Curious how many cartridges to order for the next job? Looking for an easier way to create submittals? The Red Head app is here with an expanding set of mobile calculators and resources to simplify the jobsite.

#### AVAILABLE NOW AT ITWCCNA.COM/CALCULATOR AND ON THE APP STORE

- Adhesive cartridge calculator
- Product selector
- Submittal generator
- Competitive Cross Reference

## NOTES




### FOR MORE INFORMATION VISIT WWW.ITWREDHEAD.CA

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