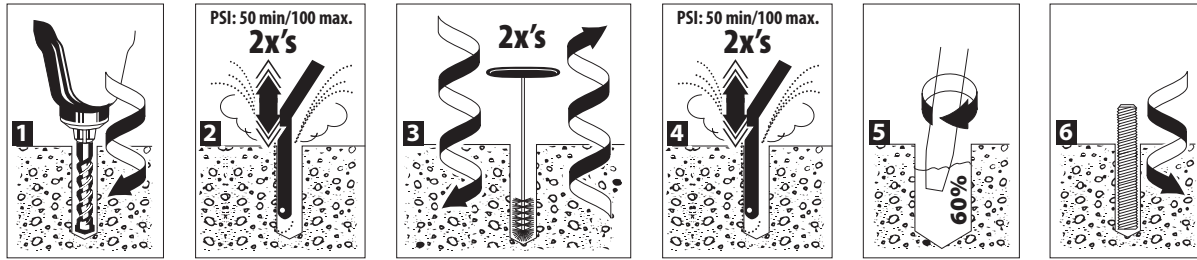


C6+ Adhesive Anchor Installation Instructions



- 1** Use a rotary hammer drill or pneumatic air drill with a carbide drill bit complying to ANSI B212.15-1994 tolerance requirements. Drill hole to the required embedment depth. See attached table for drill bit specifications and min/maximum embedment depths.
 - Installations may be used with maximum 1-1/4" diameter rods/rebar for floor, wall and overhead applications.
 - Per construction specification, adhere to minimum spacing, minimum edge distance, and minimum member thickness.
- 2** For dry holes, oscillate a clean air nozzle in and out of the dry hole two times, for a total of two seconds, starting at the bottom of the hole with contaminant-free compressed air, exhausting hole until visually clean (i.e., no dust, debris, etc.)
 - For water-saturated concrete and water-filled hole applications, oscillate a clean air nozzle in and out of the damp, water-filled or submerged hole four times, for a total of four seconds, starting at the bottom of the hole with contaminant-free compressed air, exhausting hole until visually clean (i.e., no dust, debris, etc.)
 - If required, use an extension on the end of the air nozzle to reach the bottom of the hole.
- 3** Select an appropriately sized Red Head brush for the anchor diameter. Brush must be checked for wear before use. See attached table for brush specifications, including minimum diameter.
 - Insert the brush into the hole with a clockwise motion. For every 1/2" forward advancement, complete one full turn until bottom of hole is reached. For faster and more suitable cleaning, attach the brush to a drill.
 - Using a clockwise motion, for every full turn of the brush, pull the brush 1/2" out of the hole.
 - For dry holes, twist/spin the brush two times in/out of the hole.
 - For water-saturated concrete and water-filled hole applications, twist/

- spin the brush four times in/out of the hole.
 - If required, use a wire brush extension (part nos. ESDS-38 or EHAN-38) to reach the bottom of the hole.
 - Air clean the dust off the brush to prevent clogging of the brush.
- 4** For dry holes, oscillate a clean air nozzle in and out of the dry hole two times, for a total of two seconds, starting at the bottom of the hole with contaminant-free compressed air, exhausting hole until visually clean (i.e., no dust, debris, etc.)
 - For water-saturated concrete and water-filled hole applications, oscillate a clean air nozzle in and out of the damp, water-filled or submerged hole four times, for a total of four seconds, starting at the bottom of the hole with contaminant-free compressed air, exhausting hole until visually clean (i.e., no dust, debris, etc.)
- 5** Review the Material Safety Data Sheet (MSDS) before use.
 - Check the "Use By" date on the cartridge and that the cartridge has been stored in temperatures between 50 and 77 degrees F – out of direct sunlight.
 - Review the gel time/cure time chart, based on the temperature at time of installation, in order to determine tool, cartridge and nozzle requirements.
 - Assemble the Red Head supplied cartridge and nozzle. Do not modify or remove mixing elements in nozzle.
 - For 5/8" and larger diameter anchors installed at embedments greater than 10", assemble Red Head E916-6 extension tubing and appropriate sized piston plug on end of nozzle:
 - PL-5834 for 5/8" & 3/4" diameters
 - PL-3478 for 3/4" & 7/8" diameters
 - PL-1250 for 1-1/4" diameter

- Place the assembly into a manual dispensing tool or a pneumatic dispensing tool.
 - Dispense mixed adhesive outside of hole until uniform color is achieved.
 - During installations, concrete must be between 40 and 104 degrees F, or artificially maintained. For concrete temperatures of 40F to 50F, adhesive must be maintained at a minimum 50F during installation.
 - Insert the nozzle to the bottom of the hole and inject the adhesive at an angle, leaving the nozzle tip always slightly below the fill level.
 - If nozzle does not reach the bottom of the hole, use Red Head E25-6 extension tubing positioned on the end of nozzle or use the S75EXT (nozzle extension) on the end of the S75 nozzle.
 - In a slow circular direction, work the adhesive into the sides of the hole, filling slowly to ensure proper adhesive distribution, until the hole is approximately 60% filled.
 - For holes that contain water, keep injecting the adhesive below the water in order to displace the water upward.
- 6** Immediately insert the oil, rust and scale free rod/rebar assembly to the required embedment depth, using a counterclockwise motion to ensure proper adhesive distribution.
 - The anchor rod/rebar must be marked with the required embedment depth.
 - After installing the anchor, the gap between the rod and the concrete must be completely filled with adhesive. The adhesive must fill voids, crevices and uniformly coat the rod and concrete.
 - After installation, do not disturb the anchor until the full cure time has elapsed.
 - Adhesive must be fully cured before applying any load or torque. Do not over torque the anchor as this could adversely affect its performance.

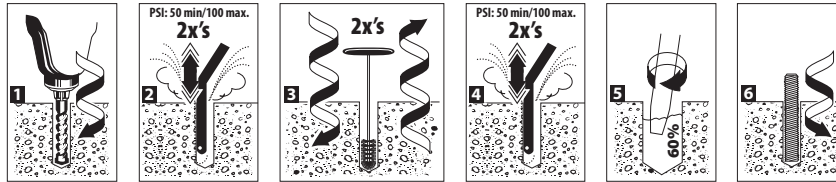
TABLE 1: SPECIFICATIONS FOR INSTALLATION OF EPCON C6+ ADHESIVE ANCHORS IN CONCRETE, SPANISH, FRENCH

Characteristic Spanish, French	Symbol Spanish, French	Units Spanish, French	Nominal Anchor Element Diameter Spanish, French							
			3/8	1/2	5/8	3/4	7/8	1	1 1/4	
Fractional Threaded Rod, Spanish, French	Size, Spanish, French	d ₀	inch							
	Drill Size, Spanish, French	d _{hole}	inch	7/16	9/16	3/4	7/8	1	1 1/8	1 3/8
Fractional Rebar, Spanish, French	Size, Spanish, French	d ₀	inch	#3	#4	#5	#6	#7	#8	#10
	Drill Size, Spanish, French	d _{hole}	inch	7/16	5/8	3/4	7/8	1	1 1/8	1 3/8
Metric Threaded Rod, Spanish, French	Size, Spanish, French	d ₀	mm	M10	M12	M16	M20	-	M24	M30
	Drill Size, Spanish, French	d _{hole}	mm	12	14	18	22	-	26	35
Metric Rebar, Spanish, French	Size, Spanish, French	d ₀	mm	T10	T12	T16	T20	-	T25	-
	Drill Size, Spanish, French	d _{hole}	mm	14	16	20	25	-	32	-
Maximum Tightening Torque, Spanish, French	T _{inst}	ft-lb	15	30	60	100	125	150	200	
Embedment Depth Range, Spanish, French	hef,min	inch	23/8	23/4	31/8	33/4	4	4	5	
	hef,max	inch	71/2	10	121/2	15	171/2	20	25	
Minimum Concrete Thickness, Spanish, French	h _{min}	inch	1.5 · hef							
Critical Edge Distance, Spanish, French	c _{ac}	inch	See Section 4.1.10 of this report Spanish, French							
Minimum Edge Distance, Spanish, French	c _{min}	inch	11/2	11/2	13/4	17/8	2	2	2 1/2	
Minimum Anchor Spacing, Spanish, French	s _{min}	inch	11/2	11/2	13/4	17/8	2	2	2 1/2	

TABLE 2: BRUSH SPECIFICATIONS, SPANISH, FRENCH

Anchor Diameter - d (in) Spanish, French	Anchor Diameter - d (mm) Spanish, French	Brush Color Spanish, French	Brush Part No. Spanish, French	Minimum Brush Diameter (in) Spanish, French
3/8 and No. 3	M10	Grey, spanish, french	SB038	0.563
1/2 and No. 4	M12 and T10	Brown, spanish, french	SB012	0.675
5/8 and No. 5	M16 and T12	Green, spanish, french	SB058	0.900
3/4 and No. 6	M20 and T16	Yellow, spanish, french	SB034	1.125
7/8 and No. 7	-	Red, spanish, french	SB078	1.350
1 and No. 8	M24 and T20	Purple, spanish, french	SB010	1.463
1 1/4 and No. 10	M30 and T25	Blue, spanish, french	SB125	1.575

Instrucciones de instalación de ancla adhesiva C6+



1 Use a rotary hammer drill or pneumatic air drill with a carbide drill bit complying to ANSI B212.15-1994 tolerance requirements. Drill hole to the required embedment depth. See attached table for drill bit specifications and min/maximum embedment depths.

- Installations may be used with maximum 1-1/4" diameter rods/rebar for floor, wall and overhead applications.
- Per construction specification, adhere to minimum spacing, minimum edge distance, and minimum member thickness.

2 For dry holes, oscillate a clean air nozzle in and out of the dry hole two times, for a total of two seconds, starting at the bottom of the hole with contaminant-free compressed air, exhausting hole until visually clean (i.e., no dust, debris, etc.)

- For water-saturated concrete and water-filled hole applications, oscillate a clean air nozzle in and out of the damp, water-filled or submerged hole four times, for a total of four seconds, starting at the bottom of the hole with contaminant-free compressed air, exhausting hole until visually clean (i.e., no dust, debris, etc.)
- If required, use an extension on the end of the air nozzle to reach the bottom of the hole.

3 Select an appropriately sized Red Head brush for the anchor diameter. Brush must be checked for wear before use. See attached table for brush specifications, including minimum diameter.

- Insert the brush into the hole with a clockwise motion. For every 1/2" forward advancement, complete one full turn until bottom of hole is reached. For faster and more suitable cleaning, attach the brush to a drill.
- Using a clockwise motion, for every full turn of the brush, pull the brush 1/2" out of the hole.
- For dry holes, twist/spin the brush two times in/out of the hole.
- For water-saturated concrete and water-filled hole applications, twist/

spin the brush four times in/out of the hole.

- If required, use a wire brush extension (part nos. ESDS-38 or EHAN-38) to reach the bottom of the hole.
- Air clean the dust off the brush to prevent clogging of the brush.

4 For dry holes, oscillate a clean air nozzle in and out of the dry hole two times, for a total of two seconds, starting at the bottom of the hole with contaminant-free compressed air, exhausting hole until visually clean (i.e., no dust, debris, etc.)

- For water-saturated concrete and water-filled hole applications, oscillate a clean air nozzle in and out of the damp, water-filled or submerged hole four times, for a total of four seconds, starting at the bottom of the hole with contaminant-free compressed air, exhausting hole until visually clean (i.e., no dust, debris, etc.)

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- Check the "Use By" date on the cartridge and that the cartridge has been stored in temperatures between 50 and 77 degrees F – out of direct sunlight.
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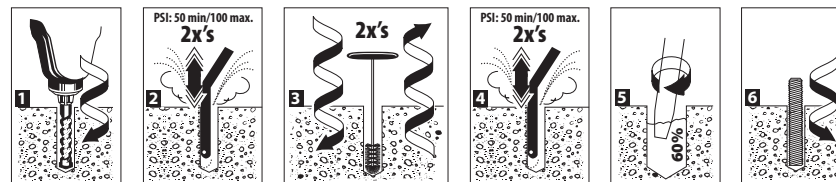
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- Place the assembly into a manual dispensing tool or a pneumatic dispensing tool.
- Dispense mixed adhesive outside of hole until uniform color is achieved.
- During installations, concrete must be between 40 and 104 degrees F, or artificially maintained. For concrete temperatures of 40F to 50F, adhesive must be maintained at a minimum 50F during installation.
- Insert the nozzle to the bottom of the hole and inject the adhesive at an angle, leaving the nozzle tip always slightly below the fill level.
- If nozzle does not reach the bottom of the hole, use Red Head E25-6 extension tubing positioned on the end of nozzle or use the S75EXT (nozzle extension) on the end of the S75 nozzle.
- In a slow circular direction, work the adhesive into the sides of the hole, filling slowly to ensure proper adhesive distribution, until the hole is approximately 60% filled.
- For holes that contain water, keep injecting the adhesive below the water in order to displace the water upward.

6 Immediately insert the oil, rust and scale free rod/rebar assembly to the required embedment depth, using a counterclockwise motion to ensure proper adhesive distribution.

- The anchor rod/rebar must be marked with the required embedment depth.
- After installing the anchor, the gap between the rod and the concrete must be completely filled with adhesive. The adhesive must fill voids, crevices and uniformly coat the rod and concrete.
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- Adhesive must be fully cured before applying any load or torque. Do not over torque the anchor as this could adversely affect its performance.

Instructions d'installation de l'ancrage adhésif C6+



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