



Impact Hammer-In Capsule

Impact And Maxima 7 Capsules

Description/Suggested Specifications

Impact Capsule

Two-part Vinyl ester capsules—hardener and resin are mixed in the hole as a rebar (rod) is hammered (no spinning needed) through the capsule to the bottom of the hole, crushing the capsule and mixing its contents.



Temperature (F°/C°)	Full Curing Time
68° / 20°	20 Minutes
50° / 10°	1 Minutes
32° / 0°	1 Hour
23° / -5°	2 Hours



Maxima 7 Spin-In Capsule

Maxima 7 Capsule

Patented Acrylic 7™ chemistry now available in a glass capsule—hardener and resin are mixed in the hole as a chisel-pointed rod is spun (hammer-drilled) through the capsule to the bottom of the hole, pulverizing the capsule and completely mixing the contents.

Epcon Impact Hammer-In Capsules Ordering Information

Rod Dia. Rebar Size In. (mm)	Capsule Dia.* (Dia. X Length) In. (mm)	Qty Per Box
3/8 (9.5)	3/8 x 3-1/2 (9.5 x 88.9)	10
1/2 (12.7)	1/2 x 3-3/4 (12.7 x 95.3)	10
5/8 (15.9)	5/8 x 3-3/4 (15.9 x 95.3)	10
3/4 (19.1)	3/4 x 6-1/2 (19.1 x 165.1)	10
# 3	3/8 x 3-1/2 (9.5 x 88.9)	10
# 4	1/2 x 3-3/4 (12.7 x 95.3)	10
# 5	5/8 x 3-3/4 (15.9 x 95.3)	10
# 6	3/4 x 6-1/2 (19.1 x 165.1)	10

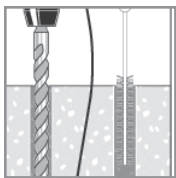
* Capsules can be stacked for deeper embedments and higher strengths.

Epcon Maxima 7 Spin-In Capsules Ordering Information

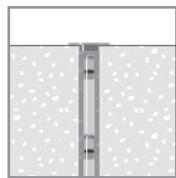
Rod Dia In. (mm)	Capsule Dia.* (Dia. X Length In. (mm)	Qty Per Box	Drive Socket**
3/8 (9.5)	3/8 x 3-3/8 (9.5 x 85.7)	10	9/16 x 3/8 (14.3 x 9.5)
1/2 (12.7)	1/2 x 3-3/4 (12.7 x 95.3)	10	3/4 x 3/8 (19.1 x 9.5) 3/4 x 3/8 (19.1 x 9.5)
5/8 (15.9)	5/8 x 3-3/4 (15.9 x 95.3)	10	15/16 x 3/8 (23.8 x 9.5) 15/16 x 3/4 (23.8 x 19.1)
3/4 (19.1)	3/4 x 6-1/2 (19.1 x 165.1)	10	1- 1/8 x 3/4 (28.6 x 19.1)
1 (25.4)	1 x 7-1/2 (25.4 x 190.5)	10	1- 1/2 x 3/4 (38.1 x 19.1)

* Capsules can be stacked for deeper embedments and higher strengths.
** Provided by contractor.

Installation Steps for Capsules



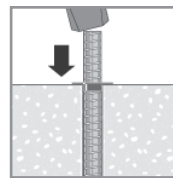
1. Drill & clean hole.



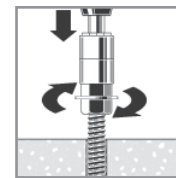
2. Insert capsule(s).



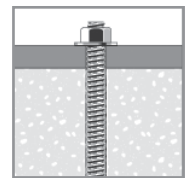
3. Doublenut threaded rod.



4. Impact Capsule Hammer rebar (rod) to hole bottom.



5. Maxima 7 Capsule Spin (hammerdrill) chisel pointed threaded rod to hole bottom.



6. Allow to cure Install fixture. Apply torque.



Technical Data



Impact Hammer-In Capsule



Maxima 7 Spin-In Capsule

**Epcon Impact Hammer-In Capsules Performance Table
Tension Loads for Reinforcing Bar Installed in 4000 PSI Solid Concrete**

Rebar Size	Hole Dia. In. (mm)	Yield Strength Grade 60 Rebar Lbs. (kN)	Embed To Exceed Yield In. (mm)	Number Of Impact Capsules	Ultimate Strength Grade 60 Rebar Lbs. (kN)	Embed To Exceed Ultimate In. (mm)	Number Of Impact Capsules
#3	1/2 (12.7)	6,600 (29.4)	3-1/2 (88.9)	1	9,900 (44.0)	7 (177.8)	2
#4	5/8 (15.9)	12,000 (53.4)	4 (101.6)	1	18,000 (80.1)	8 (203.2)	2
#5	3/4 (19.1)	18,600 (82.7)	5 (127.0)	1	27,900 (124.1)	10 (254.0)	2
#6	7/8 (22.2)	26,400 (117.4)	6-5/8 (168.3)	1	39,600 (176.2)	13-1/4 (336.6)	2

**Epcon Impact Hammer-In Capsules Performance Table
Allowable Tension and Shear Loads¹ for Threaded Rod Installed in Solid Concrete**

Allowable Working Loads Lbs. (kN)											
Threaded Rod Dia. In. (mm)				Based On Bond Strength		Based On Steel Strength					
				4000 PSI 27.6 (MPa) Concrete Tension	≥2000 PSI 13.8 (MPa) Concrete Shear	ASTM A307		ASTM A193 GR. B7		AISI 304SS	
Rod Dia. In. (mm)	Hole Dia. In. (mm)	Depth In. (mm)	Max. Torque (Ft-Lb)			Tension	Shear	Tension	Shear	Tension	Shear
3/8 (9.5)	7/16 (11.1)	3-5/8 (92.1)	27	1,846 (8.2)	1,390 (6.2)	2,080 (9.3)	1,040 (4.6)	4,340 (19.3)	2,170 (9.7)	3,995 (17.8)	1,995 (8.9)
1/2 (12.7)	9/16 (14.3)	4-3/8 (111.1)	40	3,270 (14.5)	2,415 (10.7)	3,730 (16.6)	1,870 (8.3)	7,780 (34.6)	3,895 (17.3)	7,155 (31.8)	3,585 (15.9)
5/8 (15.9)	11/16 (17.5)	5 (127.0)	80	4,780 (21.3)	4,045 (18.0)	5,870 (26.1)	2,940 (13.1)	12,230 (54.4)	6,125 (27.2)	11,250 (50.0)	5,635 (25.1)
3/4 (19.1)	7/8 (22.2)	6-3/4 (171.5)	160	6,090 (27.1)	4,690 (20.1)	8,490 (37.8)	4,250 (18.9)	17,690 (78.7)	8,855 (39.4)	14,860 (66.1)	7,440 (33.1)

**Epcon Maxima 7 Spin-In Capsules Performance Table
Allowable Tension and Shear Loads¹ for Threaded Rod Installed in Solid Concrete**

Allowable Working Loads Lbs. (kN)													
Threaded Rod Dia. In. (mm)				Based On Bond Strength			Based On Steel Strength						
				4000 PSI 27.6 (MPa) Concrete Tension	6000PSI 41.4 (MPa) Concrete Tension	≥2000 PSI 13.8 (MPa) Concrete Shear	ASTM A307		ASTM A193 GR. B7		AISI 304SS		
Rod Dia. In. (mm)	Hole Dia. In. (mm)	Depth In. (mm)	Max. Torque (Ft-Lb)					Tension	Shear	Tension	Shear	Tension	Shear
3/8 (9.5)	7/16 (11.1)	3-5/8 (92.1)	27	2,493 (11.1)	2,623 (11.7)	1,390 (6.2)	2,080 (9.3)	1,040 (4.6)	4,340 (19.3)	2,170 (9.7)	3,995 (17.8)	1,995 (8.9)	
1/2 (12.7)	9/16 (14.3)	4-3/8 (111.1)	40	4,053 (18.0)	4,531 (20.2)	2,415 (10.7)	3,730 (16.6)	1,870 (8.3)	7,780 (34.6)	3,895 (17.3)	7,155 (31.8)	3,585 (15.9)	
5/8 (15.9)	11/16 (17.5)	5 (127.0)	80	4,965 (22.1)	6,149 (27.4)	4,045 (18.0)	5,870 (26.1)	2,940 (13.1)	12,230 (54.4)	6,125 (27.2)	11,250 (50.0)	5,635 (25.1)	
3/4 (19.1)	1 (25.4)	6-3/4 (171.5)	160	7,927 (35.3)	9,620 (42.8)	4,690 (20.9)	8,490 (37.8)	4,250 (18.9)	17,690 (78.7)	8,855 (39.4)	14,860 (66.1)	7,440 (33.1)	
1 (25.4)	1-1/8 (28.6)	8-1/4 (209.6)	270	14,380 (64.0)	14,380 (64.0)	9,350 (41.6)	15,180 (67.5)	7,590 (33.7)	31,620 (140.7)	15,810 (70.3)	26,560 (118.1)	13,285 (59.1)	

¹ Use lower value of either bond or steel strengths for allowable tensile and shear loads.