

## EPCON S7 FAST CURE ADHESIVE

**Epcon S7 does *MORE* for  
Architects and Engineers...**



### EPCON S7 ALLOWS ONE CALCULATION ACROSS MORE ENVIRONMENTAL CONDITIONS

This hybrid epoxy is the **ONLY** fast cure ICC-ES listed adhesive for use in **submerged** and **water filled** holes, as well as saturated and dry conditions.

(see Environmental Reduction Factor table on back).

### EPCON S7 ENSURES MORE RELIABILITY:

- ICC-ES ESR Report No. 2308 for Cracked, Uncracked and all Seismic Zones
- Florida Building Code
- IBC 2006/2009
- NSF
- ASTM C881 Type I, II, III, IV; Class A,B,C

### EPCON S7 OFFERS MORE CONNECTION CONFIGURATIONS

Epcon S7 has better minimum edge and spacing distance than the competition.

Nominal Anchor Diameter	S <sub>min</sub> (in.)	C <sub>min</sub> (in.)
3/8	15/16	15/16
1/2	1-1/2	1-1/2
5/8	2-1/2	2-1/2
3/4	3	3
7/8	3-1/2	3-1/2
1	4	4
1-1/4	5	5



**Epcon S7 does *MORE* on the Job Site...**

### EPCON S7 INSTALLS IN MORE WEATHER CONDITIONS

Rain or shine, hot or cold (0-110°F) Epcon S7 takes care of the job.

### EPCON S7 SAVES MORE TIME BY CURING FASTER

Concrete (°F)	Adhesive (°F)	Gel Time (min.)	Cure Time
0	40	18	24 hrs.
14	30	30	12 hrs.
30	30	14	2 hrs.
50	50	6	45 min.
70	70	4	30 min.
90	90	2	30 min.
110	110	1	30 min.

# EPCON S7

### EPCON S7 STORES LONGER, HANDLES MORE EASILY

The hard plastic cartridge protects the Epcon S7 material and prevents accidental punctures. Shelf life is not an issue with Epcon S7, it lasts 12 months!

# PERFORMANCE DATA

## Environmental Reduction Factors

Characteristic		Symbol	Units	Nominal Rod Diameter (inch)						
				3/8	1/2	5/8	3/4	7/8	1	1 1/4
Periodic Inspection	Strength Reduction Factor - Dry Concrete	$\phi_{dry, pi}$	-	0.65	0.65	0.65	0.65	0.65	0.65	0.65
	Strength Reduction Factor - Saturated Concrete	$\phi_{sat, pi}$	-	0.45	0.45	0.45	0.65	0.65	0.65	0.65
	Strength Reduction Factor - Water-Filled Holes	$\phi_{wtf, pi}$	-	0.45	0.45	0.45	0.65	0.65	0.65	0.65
	Strength Reduction Factor - Submerged Concrete	$\phi_{sub, pi}$	-	0.55	0.55	0.55	0.65	0.65	0.65	0.65
Reduction factor for seismic tension		$\phi_{f, seis}$	-	0.800						



## Strength Design Loads for Epcon S7<sup>1,2,3</sup>

Nominal Threaded Rod Anchor Diameter (In.)	Effective Embedment Depth (In.)	Design Tension $\phi N_n$ lbs.	Design Shear $\phi V_n$ lbs.
3/8	2-3/8	3,155	3,398
	3-3/8	4,484	3,778
	7-1/2	7,265	3,778
1/2	2-3/4	4,499	6,918
	4-1/2	7,972	6,918
	10	13,303	6,918
5/8	3-1/8	5,450	11,018
	5-5/8	12,456	11,018
	12-1/2	21,188	11,018
3/4	3-1/2	6,460	13,915
	6-3/4	17,303	16,305
	15	31,356	16,305
7/8	3-1/2	6,460	13,915
	7-7/8	21,804	22,509
	17-1/2	43,287	22,509
1	4	7,893	17,000
	9	26,639	29,530
	20	56,788	29,530
1-1/4	5	11,031	23,759
	11-1/4	37,229	47,244
	25	85,064	47,244

KEY	CONCRETE <sup>4</sup>	ADHESIVE	STEEL <sup>5</sup>
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<sup>1</sup>These load values are for the purposes of estimation only and should not be used in design

<sup>2</sup>Temperature Range A (long term temperature 70°F, short term temperature 110°F)

<sup>3</sup>Conditions: Uncracked concrete, dry hole, seismic category A or B

<sup>4</sup>Concrete compressive strength of 4,000 psi

<sup>5</sup>Steel tensile strength of 125,000 psi (ASTM A193 Grade B7)

Made In



## Selection Chart

PART NO.	DESCRIPTION	QTY PER BOX/WEIGHT (lbs)
S7-10	10 fluid oz. cartridge	6/8.4
S7-28	28 fluid oz. cartridge	4/15.0
A100	Manual dispenser for S7-10	1/2.7
A102	Manual dispenser for S7-28	1/3.6
A200	Pneumatic dispenser for S7-28	1/9.0

PART NO.	DESCRIPTION	QTY PER BOX/WEIGHT (lbs)
A24S	Nozzle for S7-10	24/1.2
S55	Nozzle for S7-28	24/1.2
S75	"High Flow" Nozzle for S7-28 (for 5/8" and larger diameters)	24/1.7
S75EXT	Nozzle Extension for S75 high flow nozzle	24/1.4