

## EPCON C6 Fast Curing Epoxy Adhesive



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A fast curing epoxy that has been tested extensively and use on projects all over the world for almost 20 years. Works well in seismic and underwater conditions.

### Product Advantages

- 1 hour cure time
- Works in damp holes and underwater applications
- Minimum shrinkage – can be used in oversized holes and diamond cored holes
- High heat deflection temperature
- One formula for both solid and hollow base materials
- NSF standard 61 certified for drinking water systems
- Extensively tested and used worldwide

### Substrates

- Concrete
- Solid block
- Solid brick

### Specification

EPCON C6 is a heavy duty, pure epoxy injection chemical anchor. Setting characteristics at 32°C:

- Working time: 5 minutes
- Full cure time: 1 hour

### Applications



- Railway fixings
- Underwater fixings
- Tunnel constructions
- Water treatment plant
- Overhead fixings
- Reinforcement bars

### Approvals / Listings

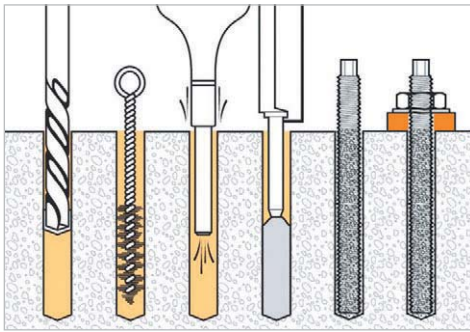
- ASTM C881-99, Type IV, Grade 3, Class A, B and C
- ICC Evaluation Service, Inc.
- City of Los Angeles - RR#24975
- City of Los Angeles - RR#24927
- NSF Standard 61 Certified for Drinking Water Components
- DOT Approval

### Setting Time

Base Material Temperature (F°/C°)	Working Time	Full Cure Time
120° / 49°	4 minutes	1 hour
90° / 32°	5 minutes	1 hour
70° / 20°	7 minutes	1 hour
60° / 16°	10 minutes	2 hours
50° / 10°	20 minutes	24 hours
40° / 4°	45 minutes	32 hours

# CHEMICAL ANCHORS

## Installation



1. Drill correct diameter hole to recommended depth.
2. Clean hole thoroughly with brush and air pump twice.
3. Assemble nozzle onto cartridge. Dispense and discard enough chemical until uniform mix is achieved. Inject from the bottom of the hole gradually, filling in until 50% full.
4. Insert the rod/stud by hand to full depth, using slow rotating movement.
5. Allow EPCON C6 to cure for specified period before loading.

## Product Range - EPCON C6 Fast Curing Epoxy Adhesive



Part No.	Description	Order Qty
<b>Pack Sizes and Accessories</b>		
8A-C6VV	EPCON C6 (530ml) + 1 E24XL Nozzle	6
8A-E24V	E24XL Nozzle	24
8A-E102	E102 Dispensing Tool	1
8A-E200	E200 Pneumatic Dispenser Tool	1

## EPCON C6 - Indicative Design Loads in Concrete - ChemSet™ Anchor Studs

Thread Ø	Hole Ø (mm)	Embedment Depth (mm)	Torque (Nm)	Anchor Spacing (mm)	Edge Distance (mm)	Shear Load (kN)*	Tension Load (kN)*
M8	10	80	10	160	80	9.5	13.2
M10	12	90	20	180	90	15.0	20.9
M12	14	110	30	220	110	21.9	30.3
M16	18	125	60	250	125	39.2	54.4
M20	25	170	120	340	170	61.2	84.9
M24	28	210	200	450	210	88.1	122.4
M30	35	280	400	560	280	130.5	181.2

# Indicative design load (kN) with ChemSet™ Grade 5.8 Studs in 30N/mm<sup>2</sup> concrete

\* Refer to Ramset Design Guide for more information or explanation of technical data

## EPCON C6 - Indicative Design Loads in Concrete - Rebar (FE460)

Bar Ø	Hole Ø (mm)	Embedment Depth (mm)	Anchor Spacing (mm)	Edge Distance (mm)	Shear Load (kN)*	Tension Load (kN)*
T8	12	80	160	80	11.1	15.4
T10	13	100	180	90	17.3	24.1
T12	15	120	220	110	25.0	34.7
T13	16	130	220	110	29.3	40.7
T16	20	160	250	125	44.4	61.7
T20	25	200	340	170	69.4	96.4
T25	30	250	420	210	108.4	150.6
T28	35	280	540	270	136.0	188.9
T32	40	320	600	300	177.6	246.7
T40	50	400	800	400	277.5	385.4

# Indicative design load (kN) with FE460 Rebar in 30N/mm<sup>2</sup> concrete

\* Refer to Ramset Design Guide for more information or explanation of technical data